No 40. Issued May, 1931.

CARADOC and SEVERN
VALLEY FIELD CLUB.

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RECORD OF BARE FACTS,
FOR THE YEAR 1930.

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A List of the More Noteworthy Observations made by Members of the Caradoc and Severn Valley Field Club and others.

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1931.

PRINTED BY WILDING & SON, LTD.,
SHREWSBURY.

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The names printed in italics after occurrences recorded are those of the observers.

The names of Meteorological observers are given in the first table under that head.

ARCHAEOLOGY.

During the past year further finds of flint implements have been made in the Clun Region : a stone celt has come to light at Garmston, near Leighton : another, found many years ago at Petton, has been presented to Shrewsbury Museum, which has also received perforated stone axe-hammers from Condover, Morfe, Pulverbatch, Prees, and Ratlinghope. The three bronze implements found in the Edgebold Brickyard have been placed on loan in the Museum.

The Hoarstone on Knockin Heath was marked on the old 1-inch O.S. map at the angle of the parish boundaries of Great Ness and Knockin, just west of that of Ruyton-XI-Towms where it follows the Holyhead road : search revealed it, almost covered by sand and vegetation, in the north hedge of Hoarstone Lane.

400 yards S.E. of this is a circular mound, capped by fir trees, standing above the east side of the Holyhead road ; this is probably a round barrow, which gave the name of Low Bank to the finest view-point in the immediate locality.

Another round barrow is reported from Brompton, near Churchstoke, N.W. of the Mount and W. of Offa's Dyke.

The round barrows on the Longmynd and numerous other local antiquities have been scheduled by the Ancient Monuments Board of the Office of Works.

The most important archæological activity recently undertaken in Shropshire is the excavation of Bury Walls, Hawkstone, under the auspices of our Roman Roads Committee, where the foundation of a large sandstone building is being uncovered on the highest part of the area : the report of Mr. E. W. Bowcock, who is in charge of operations, will be eagerly awaited.

Air photographs of part of the district N. of Shrewsbury, comprising Grinshill, Hadnall, Astley, Moreton Corbet, and Shawbury, have revealed or confirmed the line of the Roman road from Viroconium to Deva between a point north of and extending to Drury Lane, by way of Poynton Grange, Shawbury, Moreton Corbet, and west of Harcourt Mill as far as the edge of Moston Pool, an area drained in 1812, when its extension and 2 Roman milestones were discovered.

Pottery and tiles found during road-widening operations through the rectangular earthwork at Walltown, near Cleobury Mortimer have established its Roman origin and occupation : this record is due to our member, the late Mr. T. C. Cantrill, B.Sc., F.G.S.

Roman coins are reported from the Hurst, near Clun (Domitian 81-96 A.D.– and from a ditch between the Moston-Hodnet road and Hine Heath (Maximinus II. Daza, 308-13 A.D.).

Four miles of Watling Street in Stretton Dale will probably be covered or destroyed by the projected Stretton bye-pass road.

Besides much evidence for development in the cultivation of the area surveyed, the air photographs show the fields and lost roads leading to the Domesday settlement of Achetone in Acton Reynald Park.

To the early castle sites of the motte-and-bailey type should be added one in the bend of the Roden at the north end of Castle Rough, east of Lee Brockhurst, revealed by this survey; also Castle Hill, Adderley, and Bryn-y-Castell, Gobowen, which are not at present indicated as antiquities on the Ordnance Maps.

Acton Burnell Castle has been handed over to H.M. Office of Works, and steps are being taken for its preservation. Work under the same Department continues at Buildwas Abbey.

Much Wenlock spire has been taken down and will be missed as a landmark, but its weight was cracking the tower, which was never intended to carry a spire: this was not added till about 1726, a remarkably late date for such an erection.

Reference was made to the fate of Lloyd's Mansion and of the old Headmaster's House, Shrewsbury, also to the proposed widening of Tern Bridge. The demolition of old houses in Hill's Lane was regretted.

LILY F. CHITTY.

BOTANY.

PHANEROGAMIA (FLOWERING PLANTS).

N.B.—Roman numerals refer to the thirteen Botanical Sub-divisions of the County, as portrayed upon the Caradoc Special Map.

* * * *

Thanks are due to Miss E. R. Lloyd (Gobowen), Mr. H. E. Forrest, Dr. M. Gepp, and Messrs. H. Hyde and George Potts (Benthall), for various notes and records. Although Shropshire has been on the whole well worked so far as the Phanerogamic flora is concerned, yet there are still districts where further investigation would be repaid. Then it must be remembered that a flora is never static but is subject to constant change, and so however well a particular region may have been studied, it is desirable to recollect that there is always scope for observation. Quite apart from data as to the composition and distribution of Salopian flora there is a wide field for any careful observer who can extend our knowledge in many directions. There are problems in connection with every species which call for elucidation. Notes and observations on dates of leafing, flowering and fruiting are lacking for the majority of Shropshire Flowering Plants. First-hand data relating to pollation, floral visitors, parasites, seed dispersal, germination and other facts afford a fertile field here.

It will be seen that there is still ample scope for work in various directions, and we venture to reiterate our previous appeal that it is to be hoped there may be some active workers and especially amongst the Club's junior members who may respond.

A. A. DALLMAN.

Lepidium neglectum, *Thell.*

I. This (with the following species) occurred on new soil thrown up by road widening operations at Gobowen. It was observed here by Miss E. R. Lloyd, and the identification is due to Mr. H. Hyde, of the National Museum of Wales.

Thalaspi arvense, *L.*

I. Gobowen, Oswestry. *Miss E. R. Lloyd.* Leighton says "not common." Mr. Forrest notes that he often sees it in fields about Bayston Hill, Shrewsbury (IV.) which is one of the stations recorded by Leighton.

Hypericum humifusum, *L.*

VIII. In great quantity in a recently cleared wood near Wyke, making with a similar abundance of **Lysimachia nemorum** a wonderful show of yellow. *G. Potts.*

Tropaeolum speciosum.
VII. This handsome garden plant produced some remarkable freak flowers in the garden of Dr. M. Gepp at Coton Hill, Shrewsbury. One produced in 1929 formed the subject of an exhibit by Dr. A. B. Rendle to the Linnean Society (see *Proc. Linn. Soc.*, 1929). I am indebted to Dr. Gepp for examples of these abnormal flowers which also occurred in 1930. He writes that the plant is a straggling one, some five years or so old, and each year throws some freak flowers. *Dallman.*

Saxifraga tridactylites, *L.*
II. On an old wall at Mardy, Hengoed, Oswestry. *Miss E. R. Lloyd.*

Drosera rotundifolia, *L.*
II. Plentiful on Welshampton Moss, near Ellesmere. *Miss E. R. Lloyd.* Still occurs at J. E. Bowman's station, Whixall Moss, as recorded by Leighton. *H. E. Forrest.*

Drosera anglica, *Huds.*
II. A few plants on Welshampton Moss. *Miss E. R. Lloyd.* On Whixall Moss (in company with **D. longifolia**) whence it is recorded (on J. E. Bowman's authority) by Leighton. *H. E. Forrest.*

Drosera longifolia, *Linn.*=**intermedia** *Drev.* and *Hayne.*
VIII. Mr. Forrest writes that he has never seen this at either Bomere or Shomere stations recorded by Leighton.

Hydrocotyle vulgaris, *L.*
VIII. Abundant in swamp near Wyke. *G. Potts.*

Senecio sylvaticus, *L.*
VIII. In small amount at Chatwell and Plaish. *G. Potts.*

Oxycoccus quadripetala, *Gilib.*=**palustris,** *Pers.*
II. Whixall Moss. *Miss E. R. Lloyd.*

Lycopus europaeus, *L.*
I. Canal bank, the Moors near St. Martins. *Miss E. R. Lloyd.*

Viscum album, *L.*
XII. Mr. H. Hyde, of the National Museum of Wales, reports meeting with Mistletoe on two trees of Common Maple in the parish of Nash, three miles from Tenbury Wells. Has it been recorded previously on this particular host in Shropshire?

Humulus Lupulus, *L.*
I. Flowering and fruiting in a hedge in lane near Weston Rhyn. I have never before noted it in flower and fruit. *Miss E. R. Lloyd.*

Ophrys muscifera, *Huds.*
VIII. About a dozen plants in bloom noted in the old habitat near Wyke. *G. Potts.*

ZOOLOGY.

The past year was notable for the occurrence of the Hawksbill Turtle on the Merioneth coast; only the fourth recorded in British waters.

A Polecat was trapped at Munslow: no Shropshire example having been recorded for the last 30 years. In Western Wales this animal has greatly increased lately; 66 were killed at Aberdovey between July and December, and 40 in a year in Llandovery district. The American Grey Squirrel has reached Shropshire, several having been obtained or seen in the Bridgnorth district.

Among the rarer birds noted in Shropshire were an Eagle (probably the White-tailed) at Munslow; Curlew-Sandpiper near Oswestry—third record; Red-throated Diver and Fork-tailed Petrel at Bridgnorth; several Grey Phalaropes on the Teme, near Knighton; Common Tern, Lesser Black-backed Gull, and Marsh Warbler seen and watched at Eaton Constantine—the last-named only second record for the county. Redshanks are increasingly nesting in the Tern valley and Atcham; and a pair of Tufted Duck reared a brood on Betton Pool. Nightingales took up quarters at Wroxeter and Lea Cross—both unusual localities, but on the whole there were fewer than of late years. There was a distinct influx of Crossbills in mid-July, and these were in addition to the numbers which came in the previous year's invasion, many of which still remained in this country.

On the whole migrants were normal in times of arrival and departure, but a few Swallows were noted in scattered localities as early as the 2nd and 6th April; while Fieldfares lingered till the end of April, and Swifts till August 25th.

The Little Owl continues to increase and extend its range in Shropshire and North Wales.

Amongst Welsh records are notes of the Reed Warbler nesting at Talsarnau; Black Grouse seen on Plynlymon; Lesser Spotted Woodpecker at Abergele, Towyn and Aberystwyth; Tree Sparrow nesting at Knighton; Red-backed Shrike in several parts of Merioneth, and a Richardson's Skua seen at Aberdovey.

H. E. FORREST.

MAMMALS.

Myotis mystacinus (Whiskered Bat). *Elliott.* Oct. 3, one flying, 6 p.m., Dowles.

Myotis mystacinus (Whiskered Bat). Oct. 3, one flying, 6 p.m., Dowles.

——— **Sp** ?(Bat). *Elliott.* Oct. 29, large slow-flying bat on the wing, Dowles.

Sorex minutus (Lesser Shrew). *Bible.* Feb. 23, Aberdovey.

Mustela erminea (Stoat). *Potts.* Feb. Two pure white, except tail, Bridgnorth; remarkable in such mild winter. *Miss Auden.* June 1. An old Stoat and three young curled up on Hope Bowdler road, apparently sleeping, morning. Did not move on approach of motor car, nor until attacked by terrier, which killed one of the young.

M. putorius (Polecat). *Bible.* Feb. Large male, 24 inches long and 10½ inches girth, trapped Aberdovey. Sixty-six killed between July and December. *Pitt.* Forty in year Llandovery district. *Powell.* Oct. 19, very fine one trapped, Munslow. No Shropshire record 30 years.

M. nivalis (Weasel). *Bible.* May 4, one seen near Bala.

Vulpes vulpes (Fox). *Potts.* Feb. Light buff-coloured fox killed near Bridgnorth; mask preserved by Shelbrooke. Nov. 7, a very nearly black fox seen Wenlock Edge.

Halichaerus grypus (Grey Seal). *Bible.* June 7, and Aug. 6, Aberdovey.

Phoca vitulina (Common Seal). *Lort.* July 27, Brown Seal not larger than retriever dog on Menai Straits for some time—often seen.

Lutra vulgaris (Otter). *Potts.* December 16, one seen in culvert of very small stream between Willey and Broseley.

Sciurus vulgaris (Squirrel). *Bible.* April 5, four, and in December five, seen Aberdovey.

S. carolinensis (Grey Squirrel). *Pitt.* Oct. One shot Faintree, near Bridgnorth. First Shropshire record. Two others received by Shelbrooke for preservation, same district. *Potts.* December, seen near Willey Hall.

BIRDS.

Turdus philomelus (Song Thrush). *Forrest.* Last week of Jan., in song repeatedly, Bayston Hill. *Mrs. G. S. Walker.* Nest with white egg and black spots, Clunbury. *Thomas.* March 6, nest half finished; 18th, two eggs, nest half filled with snow; Abergele.

T. viscivorus (Mistle Thrush). *Pugh.* Jan. 14, in song, Tickwood.

T. musicus (Redwing). *Bible.* Oct. 23, two Aberdovey. *Potts.* Nov. 1, very large flock, Broseley. *Huxley.* 13th, passing over Shrewsbury. *Salter.* Oct. 23 and 27th, passing Aberystwyth; none stayed to Christmas.

T. pilaris (Fieldfare). *Salter.* Feb. 21, pecking turnips in frost, Aberystwyth. *Rope.* April 19, flock near Cleobury Mortimer. *J. H. Owen.* Considerable flocks Oswestry throughout April, but much diminished by end of month. *Many Observers.* Very late and few this winter, 1930-1. *Huxley.* Nov. 13, large flock Battlefield.

T. merula (Blackbird). *Owen.* May 29, nest 4 eggs and 1 Cuckoo's, Knighton.

T. torquatus (Ring Ouzel). *Bible.* March 21, Rhayader; May 3, several Dolgelley. *Cadman.* April 9, Longmynd. *Owen.* 12th, Knighton.

Œnanthe oenanthe (Wheatear). *W. Miall Jones.* Mar. 12, male, Aberystwyth. *Bible.* 19th, Aberdovey, and (*A. C. Jones*) Walcot and Wellington 21st. *Walker.* 31st, one killed against telegraph wires, Murrell's Nursery. *Bible* March 19, a cloud of birds seen to arrive Aberdovey; Sept. 30, two on Golf Course. *Owen.* April 7, three Elan Valley. *Thomas.* 12th, two Abergele. *Geoffrey C. S. Ingram.* Aug. 6. One shot, Ty Croes, Anglesey, with wings and tail normal, but head, neck and breast white with few buff feathers; no eye-stripe.

Saxicola rubetra (Whinchat). *Owen.* May 5, Knighton; June 11, nest 6 eggs and 1 Cuckoo's. *Salter.* May 6, Borth: common Cader Idris lower slopes.

S. torquata (Stonechat). *Bible.* Jan. 2, several together, Aberdovey; Nov. 3, more than usual this time of year; mostly in pairs.

Phoenicurus phoenicurus (Redstart). *Elliott.* April 26, Dowles. *Bible.* May 5, Aberdovey; 3 or 4 Corris June 16th; young July 9. *Owen.* April 17, Knighton; many 27th. *Thomas.* 22nd, male, Abergele; sang 21 days—then left; no mate.

Erithacus rubecula (Robin). *A. C. Jones.* May. Two nests with pure white eggs, Rushmoor. *Thomas.* Nest 7 eggs, Abergele.

Luscinia megarhyncha (Nightingale). *Potts.* April 23, Broseley. May 6, singing vigorously, in cold rain. *Gepp.* April 29, Pulley. *Cartwright.* May 1, one appeared Wroxeter, and was afterwards often heard singing early in afternoon. *E. T. Armstrong.* June 1, one singing Lea Cross.

Sylvia communis (Whitethroat). *Bible.* April 24, one, and May 4, several, Machynlleth. *Forrest.* 12th, Bayston Hill. *Owen.* April 26, Knighton. *Lang.* May 3, Ludlow. *Thomas.* April 16, Abergele; 18th, three more: marked decrease this year. *Salter.* 25th, Aberystwyth.

S. curruca (Lesser Whitethroat). *Elliott.* April 29, Dowles. *Owen.* 23rd, Knighton. *Lang.* May 20, Ludlow. *Thomas.* April 24, Abergele. *Salter.* May 6, Llanidloes—new locality. Male visited own garden. Llanbadarn.

S. atricapilla (Blackcap). *Sankey.* April 10, one Boreatton. *Potts.* 22nd, Madeley. *Pugh.* 24th, Tickwood. *Huxley.* May 1, Shelton. *Sumsion.* April 10, Eaton Constantine. *Elliott.* 14th, Dowles. *Bible.* May 3, Aberdovey. *Thomas.* Increased Abergele; 10th, five singing in one wood. *Salter.* April 18, Aberystwyth.

S. borin (Garden Warbler). *Bible.* April 23, Aberdovey, reported. *Potts.* May 4, Broseley. *Huxley.* 5th, Shelton. *Elliott.* 8th, Dowles. *Owen.* April 29, Knighton. *Lang.* May 12, Ludlow.

Phylloscopus collybita (Chiffchaff). *Bible.* March 31, Aberdovey and Aberystwyth. *Potts.* April 9, Madeley, and Shelton (Huxley). *Bayley.* Not on Clee till 24th. *Pugh.* Seen 5th but not heard till 11th, Tickwood. *Hodges.* 10th, Cleobury North. *Elliott.* March 29, Breedon Hill; April 2, Dowles; several 3rd; Oct. 2, in song. *Owen.* April 6, three pairs Knighton. *Lang.* 1st, Ludlow. *Thomas.* March 31, one Abergele; April 1, three.

P. trochilus (Willow Wren). *Bible.* April 6, Aberdovey and Aberystwyth. *Huxley.* 9th, four Shelton. *Bible.* Sept. 25, one singing. *Lang.* April 28, Ludlow. *Thomas.* 10th, two Abergele.

P. sibilatrix (Wood Wren). *Bible.* April 23, reported Aberdovey. May 4, several Machynlleth. *Elliott.* April 30, Dowles. *Owen.* 26th, Knighton. *Lang.* May 12, Ludlow. *Congreve.* Denbigh, several nests with 7 eggs. *Salter.* April 30, Devil's Bridge.

Acrocephalus scirpaceus (Reed Warbler). *Elliott.* May 20, one by Severn Dowles. *Bible.* Reported by Mr. Caton Haigh as nesting Talsarnau.

A. schoenobaenus (Sedge Warbler). *Bible.* April 26, Aberdovey. *Owen.* May 4, Knighton.

A. palustris (Marsh Warbler). *Sumsion.* April 10, Seen at close quarters and heard in marshy ground, Eaton Constantine. Second Shropshire record.

Locustella noevia (Grasshopper Warbler). *Potts.* April 23, Broseley. *Corbett.* One seen and heard Llandrindod Wells in early June. *Thomas.* June 17, nest 4 eggs, Abergele. *Salter.* April 24, Aberystwyth.

Aegithalus caudatus (Long-tailed Tit). *Bible.* Jan. 13, large party, Aberdovey; April 15, three pairs nesting; December, more numerous than for some years; Oct. 23, large party, and 30th, two parties, one of twenty. *Salter.* Quite recovered frost 1929.

Parus palustris (Marsh Tit). *Bible.* March 28, one Aberdovey; Oct. 30, one with large party Long-tailed Tits. *Price-Davies.* Common Marrington and Llandyssil. *Thomas.* Nest 10 eggs, Abergele. Two nests under stone debris—unusual situation. *Owen.* May 16, nests 6 and 7 eggs, Knighton.

P. major (Great Tit). *Thomas.* Nests 10 and 12 eggs, Abergele.

P. coeruleus (Blue Tit). *Thomas.* Two nests with 11, and two with 12 eggs, Abergele.

Sitta europoea (Nuthatch). *Pugh.* 18 Jan. in song, Tickwood. *Thomas.* Three nests in holes in walls, Abergele; marked increase; resident. *Owen.* Jan. 20, song, Knighton. May 14, nest 7 eggs; 16th, nest 9 eggs.

Certhia familiaris (Tree Creeper). *Lt.-Col. Kirkby.* Nov. 10, Flock, Machynlleth.

Motacilla flava (Yellow Wagtail). *Sumsion.* May 8, Eaton Constantine.

M. lugubris (Pied Wagtail). *Bible.* Sept. 9, at least 100 together Aberdovey.

M. alba (White Wagtail). *Salter.* May 4, one with many Pied W., Aberystwyth.

Anthus trivialis (Tree Pipit). *Bible.* April 21, Aberdovey. *Potts.* 23rd, Broseley. *Pugh.* 12th, Tickwood. *Owen.* 21st, Knighton. *Backhouse.* 12th, Arthog.

Lanius collurio (Red-backed Shrike). *Elliott.* May 7, Dowles. *Bible.* 16th, Aberdovey; 3, 2, and 1, on 23rd; July 30, three pairs. *Backhouse.* May 28, male, Llanwchllyn. *Salter.* June 14, Rhayader; 24th, Llanbedr.

Muscicapa striata (Spotted Flycatcher). *Walker.* May 5, Hope Valley. *Bible.* 22nd, one, and 23rd three more, Aberdovey. *Salter.* 23rd, Aberystwyth.

M. hypoleuca (Pied Flycatcher). *Sparrow.* Pair reared brood in nest-box, Church Stretton. *Elliott.* July 8, Horderley. *Bible.* June 16, Aberdovey. *Owen.* April 27, many Knighton.. *Thomas.* May 10, Abergele; 12th, another. One found mate and nested, other left.

Hirundo rustica (Swallow). *W. Miall Jones.* April 2, one Aberystwyth. *G. W. Parkinson.* 6th, over R. Tern. *Potts.* 22nd, Broseley. *Bible.* 23rd, Aberdovey. *Pugh.* 13th, one, Tickwood. *Gepp.* 24th, pair nesting, Buildwas. *Cottam.* 18th, Oswestry. *Huxley.* May 5, many, Shrewsbury. *Hodges.* April 19, Cleobury North. *Elliott.* 21st, Chipping Campden; 24th Stourport; 25th Dowles; Oct. 23rd, two young last seen. *Bible.* Nov. 10, last seen Aberdovey. *Owen.* April 23, Knighton. *Lang.* 30th, Ludlow. *Thomas.* 12th, Abergele. *Forrest.* The attics of Plaish Hall are annually occupied by a colony of Swallows. About 30 remained through the winter of 1929-30; and about 10 or 12 in 1930-31. They fed on insects in the roof, and flew out in fine weather. Seen constantly both winters by housekeeper, but this winter they were not seen after Jan. 10, 1931.

Delichon urbica (House Martin). *Potts.* April 23, pair reported at nesting place, Broseley. *Bible.* 25th, reported Aberdovey; last seen Oct. 7. *Forrest.* May 5, one Bala. Pairs which nest Bayston Hill did not arrive till 14th. *Elliott.* April 29—Oct. 6, Dowles. *Lang.* May 3, Ludlow. *Thomas.* April 26, Abergele. *Congreve.* May 8, Denbigh. *Salter.* April 25, Aberystwyth. Curiously local as a breeding species; breeds Portmadoc, Arthog and Towyn, but not Aberdovey or Aberystwyth.

Riparia riparia (Sand Martin). *W. Miall Jones.* March 30, Aberystwyth. *G. W. Parkinson.* April 6, over R. Tern. *Miss Lloyd-Jones.* 9th, Shrewsbury. *Gepp.* Not seen Coton Hill till 25th. *Elliott.* 26th, Dowles; Oct. 6, last seen. *Bible.* May 5, Aberdovey. *Owen.* April 11, about 20, Knighton.

Passer montanus (Tree Sparrow). *Owen.* May 16, building, Knighton.

Coccothraustes coccothraustes (Hawfinch). *Sparrow.* May 19, pair in garden, Church Stretton; first seen there. *Thomas.* Resident Abergele.

Fringilla coelebs (Chaffinch). *Bible.* Jan. 16, large flock, Dovey Bridge, and smaller Tal-y-llyn. *Owen.* Jan. 22, full song, Knighton; April 16, nest ready for eggs—early.

F. montifringilla (Brambling). *Owen.* March 30, flock Knighton.

Carduelis linaria (Lesser Redpoll). *Congreve.* Denbigh, very common in alders, Clwyd Valley; nests found in alder and hazel.

C. spinus (Siskin). *Elliott.* A sprinkling this winter, Dowles.

Loxia curvirostra (Crossbill). *Powell.* May. Pair throughout May, feeding on Scotch Fir, Munslow. *Corbett.* July 3, Party feeding in fir trees, Longnor Hall. *Elliott.* Jan. 25, party in orchard, Dowles; Aug. 12, in Spruce; July 26, passed over; Sept. 14, six on Larches; Nov. 20, still here. *Bible.* Oct. 12, party of 7, two adult males, Aberdovey. *Sparrow.* July 16, etc., small parties Stretton and Rushbury. *Potts.* Aug. 3, six in garden, Broseley. *Sankey.* Boreatton, seen eating garden peas. *Congreve.* July 15, flock of 9, Denbigh. *Thomas.* Abergele: several from mid-June; marked increase. July 29, flights of 12 to 20 together seen crossing between woods; July 31 at least 100 in scattered flocks. Jan. 12, 1931, small numbers still in the woods. *Powell.* Sept. 23, seen Munslow slicing apples and eating pips. *Shelbrooke.* Also at Middleton Scriven. *Salter.* Seen to eat sunflower seeds, Aberystwyth. April 20, two—one redder than other.

Emberiza calandra (Corn Bunting). *Bible.* July 10, Towyn—The only place where now seen hereabouts. *Thomas.* June 11, Abergele, nest 2 hatched and 1 hatching.

E. cirlus (Cirl Bunting). *Thomas.* Only once seen, Abergele, April. Last year at least five.

E. citrinella (Yellowhammer). *Owen.* March 30, nest half-built, Knighton; very early.

Sturnus vulgaris (Starling). *Thomas.* Nest 7 eggs, Abergele.

Pyrrhocorax pyrrhocorax (Chough). *Bible.* Jan. 8, Lt.-Col. Kirkby visited roosting quarters with flash-light and got close to the birds which kept up incessant chatter. Nov. 19, four together, Aberdovey; others seen on several occasions. *Salter.* Seen in usual haunts near Aberystwyth.

Corvus corax (Raven). *Bible.* March 16, three nests, one 5 eggs, Aberdovey. *Owen.* March 1, nests 4 eggs and 2 eggs, Rhayader district; 7th, nest 3 eggs chipping; one 6 eggs, another 3 eggs; 8th, nest 5 eggs 45 feet up Scotch Fir; April 21, nest, four young.

C. corone (Carrion Crow). *Thomas.* Nest 6 eggs Abergele.

Pica pica (Magpie). *Bible.* March 23, twenty-seven roosting together, Aberdovey.

Lulla arborea (Woodlark). *Elliott.* May 18, party of six, Dowles. *Bible.* July 12, three Aberdovey. Professor Salter says that until the great frost of 1928 there were plenty, but not since. *Owen.* March 8, first heard Knighton.

Apus apus (Swift). *Bather.* April 27, Meole. *Gepp.* May 5, Shrewsbury, and several same day Aberdovey (*Bible* and *Forrest*). 6th, Mountfields (*Huxley*), Oswestry (*Cottam*), and Broseley (*Potts*). Increase on 9th. *Forrest.* Pair which nest on house, Bayston Hill did not arrive till 16th. Shrewsbury, increase on 17th and 18th. *Sumsion.* 8th, Eaton Constantine. *Sparrow.* 16th, one with white body flying over Caradoc. *Elliott.* 5th, Dowles; Aug. 13, last seen. *Bible.* Gathering Aug. 9th, 13th, and 17th several hundreds; last seen 25th, Aberdovey. *Morris,* last seen Shrewsbury 20th. *Cottam.* Last seen Oswestry 22nd. *Owen.* May 5, two Knighton. *Lang.* 3rd, Ludlow. *Thomas.* 8th, Abergele; Aug. 23 five flying about. *Congreve.* May 7, Denbigh; last seen Aug. 20.

Caprimulgus europoeus (Nightjar). *Elliott.* May 16, Dowles. *Thomas.* Marked increase Abergele.

Picus viridis (Green Woodpecker). *Pugh.* 19 Jan., in song, Tickwood. *Salter.* Still scarce Aberystwyth district.

Dryobates major (Great Spotted Woodpecker). *Pugh.* 19 Jan. in song, Tickwood; 24 Feb., onwards, one came regularly to bird-table; particularly fond of cocoa-nut and has stayed as long as 15 minutes eating it.

D. minor (Lesser Spotted Woodpecker). *Bible.* March 27, Peniarth Ucha, Towyn (*Miss Winser*); Dec. 14, two near Tal-y-llyn (*Lt.-Col. Kirkby*). *Thomas.* Several pairs Abergele. *Salter.* Pair nested Aberystwyth.

Iynx torquilla (Wryneck). *Elliott.* May 17, Dowles.

Upupa epops (Hoopoe). *Owen.* June 16, reported seen Knighton by Major Pritchard. *A. Stanley Davis.* 3 Feb. A bird seen on a field near Severn, Welshpool, is described as "size and colour of Thrush, and white feathers in tail, red crest, flight fluttering and weak." ? Hoopoe.

Cuculus canorus (Cuckoo). *A. C. Jones.* April 23, Rushmoor (*Sumsion*) Eaton Constantine, and (*Potts*) Madeley. *Sankey.* 24th, Boreatton. *Bayley.* 25th, Brown Clee. *Bible.* 24th, Aberdovey, and (*Gepp*) Shrewsbury. *Hodges.* 20th, Cleobury North. *Elliott.* 26th, Dowles. See also *British Birds* for July for account of Cuckoo removing egg of another Cuckoo from Wagtail's nest when depositing her own egg in it. *Cottam.* June 22, last heard Whixall. *Owen.* April 21, Knighton; May 4 bubbling note; 29th, egg in Blackbird's nest with 4 eggs; June 11, in Whinchat's nest with 6 eggs; Meadow Pipit 2 eggs and 3 eggs of Cuckoo, 2 laid by same Cuckoo. *Lang.* April 28, Ludlow. *Thomas.* 24th, two Abergele. *Congreve.* Denbigh, 3 eggs in Sedge Warbler nests in small area, but 15 others without Cuckoo egg. *Salter.* April 21, Aberystwyth; last heard June 21.

Tyto alba (Barn Owl). *G. W. Parkinson.* 8 Feb. One hunting in daylight, afternoon, nr. Wellington.

Athene noctua (Little Owl). *Sankey.* 20 Jan., one shot Boreatton. *W. E. Gough.* One or two seen repeatedly Adcote. *Congreve.* Established near Denbigh and Ruthin. *Oldham.* June 26, pair feeding young, Great Orme's Head. *Wenner.* Marked increase Llangwm district, Denbighshire. *Owen.* March 29, pair Knighton. *Thomas.* None seen Abergele. *Salter.* Often seen sea-cliffs, Aberystwyth.

Circus cyaneus (Hen Harrier). *Cartwright.* April 5, male trapped, Cound.

Buteo buteo (Buzzard). *Owen.* April 18, nest 3 eggs, week sat; 26th, two nests three eggs; and two with two eggs. *Salter.* Continues numerous Aberystwyth district.

Haliaetus albicilla (White-tailed Eagle). *Bayley.* 5 Feb. One seen by many people flying over Munslow.

Milvus milvus (Kite). *Owen.* April 12, watched pair, Radnorshire. *Salter.* Eggs taken early morn from one watched nest.

Falco peregrinus (Peregrine Falcon). *Owen.* April 21, nest 4 eggs, Knighton.

Astur palumbarius (Goshawk). *Potts.* One escaped from Willey Hall; chain on leg.

Phalacrocorax carbo (Cormorant). *Owen.* Oct. 14, one caught by Postman, Llanfaes. *Salter.* Aug. 2, fair number still at Bird Rock, Towyn; nested on coast between Aberystwyth and Borth for first time.

Ardea cinerea (Heron). *H. H. Hughes.* Nov. 5. One fighting with Rook in the air over Shrewsbury.

Anser albifrons (White-fronted Goose). *Salter.* March 7, skein of about 40 near Devil's Bridge; April 21, 9 Tregaron bog.

Anser sp ? (Wild Goose). *Elliott.* 9 Feb., a gaggle of about 30, going S. and calling freely; Dowles. *Potts.* Several flocks, one very large, reported going N. in early spring, Wenlock district.

Tadorna tadorna (Sheld Duck). *Bible.* Feb. 8, sixty-four Aberdovey; eighty-eight next day.

Spatula clypeata (Shoveler). *Sankey.* Nov. 27, one shot Boreatton. *Bible.* Dec. 4, pair Towyn. *Salter.* Nov. 28, male, Tonfanau Pool.

Anas acuta (Pintail). *Bible.* Numerous in winter on Dovey estuary. Two April 28—a late date.

Bucephala clangula (Goldeneye). *Bible.* Dec. 4, six—2 adult males—Towyn. *Salter.* Occurred on Van Pool, Llanidloes, in winter 1929.

Nyroca fuligula (Tufted Duck). *Cartwright.* Pair nested Betton Pool and reared brood.

Nyroca nyroca (Ferruginous Duck). *Capt. Nanney Wynn.* One on Tonfanau Pool, nr. Towyn, winter 1928-9.

Mergus serrator (Red-breasted Merganser). *Bible.* Frequent on Dovey estuary—19 on Dec. 6. *Salter.* Feb. 19, fourteen; April 22, pair; first returned Sept. 25.

Streptopelia turtur (Turtle Dove). *Sumsion.* May 7, Eaton Constantine. *Elliott.* 12th, Dowles. *Lang.* 22nd, Ludlow. *Thomas.* 3rd, one Abergele. *Forrest.* The Turtle Doves which frequent Mrs. Steavenson's garden at Bicton Heath returned as usual; 2 came April 27, 2 March 1, and 14 together on May 9; this implies that they had kept together in the country where they wintered. 18 returned out of the 24 that left there in the autumn of 1930.

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Lyrurus tetrix (Black Grouse). *Bible.* Oct. 1929 and Jan. 1930, seen on Plynlymon range.

Perdix cinerea (Partridge). *Owen.* April 18, pair seen to alight on hedge.

Crex crex (Corncrake). *Salter.* May 4, Aberystwyth. *Sumsion.* 7th, Eaton Constantine. *Cottam.* 10th, Oswestry. *Cartwright.* 1st, Wroxeter. *Forrest.* 10th and 16th, Bayston Hill. *Hodges.* 10th, Neenton. *Elliott.* 21st, Dowles. *Bible.* 6th, Aberdovey.

Charadrius hiaticula (Ringed Plover). *Corbett.* May 18, one found dead on road near Knighton, Radnorshire.

C. apricarius (Golden Plover). *Owen.* March 9, Knighton.

Vanellus vanellus (Peewit). *Elliott.* 7—9 Jan., very large flocks in Severn Valley and between Shrewsbury and Stretton. *Potts.* 21st, five immense flocks between Barrow and Wenlock; again on 1 Feb. *Owen.* March 28, one egg. April 5, many with 3 and 4 eggs; 11th, nest five eggs—only once before found.

Phalaropus fulicarius (Grey Phalarope). *Owen.* Late in November several on Teme in Leintwardine district, very tame; one shot on farm, Willey, near Presteigne.

Scolopax rusticola (Woodcock). *Bible.* Jan. 8, thirteen shot and many more seen, Nevin. *Owen.* March 9, seen Knighton. *Thomas.* 22nd, two flushed Abergele woods.

Gallinago gallinago (Snipe). *Col. C. S. Price-Davies.* July 18, one seen carrying young, Forden. *Owen.* April 16, two nests 4 eggs, Knighton—early.

Erolia ferruginea (Curlew Sandpiper). *Owen.* Sept. 7, one by small pond near Oswestry, watched at close quarters. Third Shropshire record.

E. maritima (Purple Sandpiper). *Bible.* Jan. 24, three Aberystwyth. *Salter.* Small flock regularly frequents rocks in front of College; 12 on Nov. 20th.

Tringa hypoleuca (Sandpiper). *Sumsion.* March 9, Eaton Constantine. *Elliott.* May 8 and 23, June 24, July 23 and 29; and Aug. 11; Dowles. *Bible.* April 29; reported several days before, Aberdovey. *Owen.* 17th, Knighton; May 16, nest 4 eggs. *Lang.* May 3, Ludlow.

T. ochropus (Green Sandpiper). *Owen.* Aug.-Sept. One seen repeatedly near Oswestry. *Corbett.* Another at Longnor in winter months; seen also previous years.

T. totanus (Redshank). *G. W. Parkinson.* About a dozen resident along R. Tern between Walcot and Rushmoor. *Cartwright.* Steadily increasing about Atcham. *A. C. Jones.* April 20, large flock, at least 150, near Crudgington. June 10, nest with only *two* hard-sat eggs, Rushmoor. *Elliott.* March 14, passing over Dowles. *Owen.* April 28, pair Llandegla.

Numenius arquata (Curlew). *Owen.* March 8, first heard Knighton. *Salter.* Feb. 18, some already in hills at breeding haunts. April 29, nest 3 eggs.

Sterna hirundo (Common Tern). *Sumsion.* June 1, pair on Severn, Eaton Constantine. *Bible.* 28th, two on Dysynni estuary, but no Lesser Terns. *Salter.* Aug. 5, number returned Aberystwyth by this date.

Salbifrons (Lesser Tern). *Bible.* April 25, about a dozen, Aberdovey. *Congreve.* Between 20 and 30 pairs in breeding colony, Prestatyn.

Larus ridibundus (Black-headed Gull). *Bible.* Feb. 3, one with dark head complete, Aberdovey. *Owen.* April 28, grand sight, Llandegla.

L. fuscus (Lesser Black-backed Gull). *Sumsion.* May 28, six on Severn, Eaton Constantine—2 adults.

L. marinus (Great Black-backed Gull). *Bible.* Feb. 5, seven, and March 16 eight together, Aberdovey; seldom so many associate.

L. canus (Common Gull). *Bible.* July 22, sixty-five in the Happy Valley, Aberdovey; unusual this time of year.

Stercorarius parasiticus (Richardson's Skua). *Lt.-Col. Kirkby.* Nov. 29, one watched Aberdovey.

Colymbus immer (Great Northern Diver). *Bible.* Dec. 4, one found dead, "oiled," Aberdovey.

C. stellatus (Red-throated Diver). *Bible.* March 7, one Aberdovey; 8th, on shore, very ungainly movements. April 26, two. *Shelbrooke.* August. One on Severn, Bridgnorth, seen by many. Stones thrown at it, so disappeared.

Podiceps cristatus (Great Crested Grebe). *Daily Mail.* 11 Jan. One shot Barmouth; sent to Nat. Museum, Cardiff.

Hydrobates pelagicus (Storm Petrel). *W. Miall Jones.* Oct. 7, one picked up dead after storm, Aberystwyth.

Oceanodroma leucorrhoa (Fork-tailed Petrel). *Potts.* Besides those mentioned in *Bare Facts* last year, one was shot near Bridgnorth late Nov., 1929, and sent in to Shelbrooke for preservation.

REPTILES.

Chelonia imbricata (Hawks-bill Turtle). *Backhouse.* November, one caught alive Mochras, kept 3 days when it died. Fourth *British* record.

Vipera berus (Adder). *Elliott.* May 19, large one killed, Dowles.

Rana temporaria (Frog). *Elliott.* Jan. 23, out, Dowles. 25th, one killed by frost.

ENTOMOLOGY.

LEPIDOPTERA.

The following records have been sent in for 1930 :—

Vanessa io (Peacock Butterfly). Jan. 19. Benthall Edge. Unusually early date. *Potts.* Reported on wing, Nov. 2, Dowles. *Steele Elliott.*

A. selene (Small Pearl-bordered Fritillary). May 25. Dowles. *Steele Elliott.*

A. euphrosyne (Pearl-bordered Fritillary). June. This and Selene more numerous than usual, nr. Tickwood. *Potts.* Both fairly numerous in and around woods about Middlehope and Upper Millichope. June 9. *Potts.*

C. edusa (Clouded Yellow). July. Dowles. *Steele Elliott.*

V. C. album (Comma). Two seen on fine days Aug. 16th to Sept. 8, Benthall. *Potts.* Two on wing together, Oct. 26 and 29. Dowles. *Steele Elliott.*

P. megaera (Wall Butterfly). Sept. 10. Madeley Wood (nr. Iron-Bridge). *Potts.*

Sphinx convolvuli (Convolvulus Hawk Moth). Taken by Schoolboy to Rev. E. Lewis, Forton, 18th March.

A. atropos (Death's-head Hawk). Sept. Plealey (*Richard Davies*).

C. elpenor (Elephant-hawk Moth) and **C. porcellus** (Small ditto). Boreatton. *Dr. Sankey.*

D. tiliae (Lime Hawk). Kingsland, May 25. *Ingrams.*

C. elpenor. Two larvae (full-fed) *Capt. Townley,* Kingsland.

COLEOPTERA, 1930.

The following 12 new species to the County have been recorded by Mr. A. J. Barnes, bringing the total for Shropshire to 1124 species.

Mr. J. R. le B. Tomlin has again rendered valuable assistance by naming the more difficult species.

Haliplus fulous, F.	Benthall.	July.
Helophorus aequalis, Th.	do.	June.
Cercyon terminatus, Marsh.	do.	June.
Stenus binotatus, Lynn.	do.	July.
Choleva nigrita, Er.	do.	July.
do. watsoni, Spence	do.	June.
Aphodius scybalarius, F.	do.	March.
do. contaminatus, Hbst.	do.	June.
Chrysomela orichalcia, Mull.	Found on road at Benthall by Miss B. Potts, Sept. 28.	
Salpingus ater, Pk.	Benthall.	Sept.
Rhynchites, nanus, Pk.	do.	June.
Anthonomus ulmi, De G.	Caughley, on elm.	June.

W. S. INGRAMS.

LEPIDOPTERA.

The following list is contributed by Mr. J. Hignett, Oswestry.

PAPILIONINA.

NYMPHALIDAE

Argynnis paphia. Candy Wood. An old record.
A. adippe. Breidden Hill. An old record.
A. aglaia. Breidden Hill. An old record.
A. selene. Candy Wood. An old record.
A. euphrosyne. Candy Wood and Llanymynech Hill.
Vanessa c-album. Llanymynech Hill, 1930.
V. io. Common.
V. urticae. Common.
V. atalanta. Common.
V. cardui. Llanymynech Hill, 1929.

SATYRIDAE

Pararge aegeria. Llanymynech Hill, common.
P. megaera. Common.
Satyrus semele. Llanymynech Hill, abundant.
Epinephele tithonus. Llanymynech Hill, common.
E. janira. Abundant.
E. hyperanthus. Duke's Wood, Ellesmere, an old record.
Coenonympha tiphon. Whixall Moss, abundant.
C. pamphilus. Common.

LYCAENIDAE

Thecla rubi. Llanymynech Hill, scarce 1929. Whixall Moss, abundant 1930.
T. w-album. Breidden Hill, also at Park Hall, both old records.
Chrysophanus phlaeas. Common.
Lycaena argiolus. Common.
L. icarus. Common.
L. astrarche. Llanymynech Hill, common.

PIERIDAE

Colias edusa. Whittington, Middleton, old records.
Gonepteryx rhamni. I saw one of these fly across the road at Llanymynech about 25 years ago. I have never seen another. Rhamnus frungula and catharticus both grow on Llynclys Hill.
Euchloe cardamines. Common, less so than formerly.
Pieris napi. Abundant.
P. rapae. Abundant.
P. brassicae. Abundant.

HESPERIADAE

Hesperia malvae. Llynclys and Llanymynech Hills, common also at Whittington.
H. tages. Llanymynech Hill, Llanforda, common.
Pamphila thaumas. Mr. Bunnett found this on the side of the road at Nesscliffe and gave me specimens—an old record.
P. sylvanus. Llanymynech Hill, Whixall Moss, common.

SPHINGINA.

SPHINGIDAE

Semerinthus populi. Common.

S. ocellatus. Common.

Acherontia atropos. Several old records of this, Gobowen, Trefonen.

Sphinx convolvuli. One specimen found dead on the road at Gobowen by Miss Lloyd, 9 Aug. 1929.

Metopsilus procellus. Llanymynech Hill, not uncommon, 1930.

Choeroeampa elpenor. One specimen caught at Hengoed; now in Oswestry Museum—an old record.

Macroglossa stellatarum. Not uncommon some seasons. I found the larvae on Llanymynech Hill in 1928.

BOMBYCINA.

NOTODONTIDAE

Cerura bifida. The Llys, Oswestry (a pair on a poplar tree), an old record. One at light in the centre of Oswestry, 1929.

C. furcula. Larvae found at Llanymynech Hill, Llanforda and Whixall Moss, 1930.

Dicranura vinula. Larvae found at Llanymynech Hill, 1930.

Pheosia tremula. One specimen at light in centre of Oswestry, 29 Aug. 1929.

P. dictaeoides. Larvae not uncommon on Whixall Moss, Sept. 1930.

Notodonta ziczac. Larvae not uncommon on Whixall Moss, Sept. 1930.

N. dromedarius. Larvae very common on Whixall Moss, Sept. 1930.

Lophopteryx camelina. Larvae very common on Whixall Moss, Sept. 1930. Eggs found on trunk of a beech in Candy Wood and eight specimens bred, 1928.

Phalera bucephala. Common.

THYATIRIDAE

Palinpsistis duplaris. Whixall Moss, common, 1930.

Polyploea flavicornis. Larvae, Llynclys and Llanymynech Hill, common (bred out March 1931).

LYMANTRIIDAE

Orgyia antiqua. Common.

Dasychira pudibunda. One specimen at light in Oswestry, 30-5-30.

Porthesia similis. Common.

LASIOCAMPIDAE

Trichiura crataegi. The Llys. An old record.

Poecilocampa populi. Common at gas lamps.

Eriogaster lanestris. Nest of larvae are quite common.

Lasiocampa quercus. Common—all I have bred these last few years are the Northern variety; 25-30 years ago all would come out the same year in about three weeks.

Macrothylacia rubi. Larvae—Llanymynech Hill, Craignant.
Imago—Whixall Moss abundant, old records.
Larvae—Llanrhaiadr, 1928, by Mr. C. H. Wallace Pugh.

Cosmotriche potatoria. Larvae—Melverley, Middleton, old records.

SATURNIADAE

Saturnia pavonia. Larva, Whixall Moss, 17 July, 1930.

DREPANIDAE

Drepana falcataria. Llynclys Hill, 25 May, 1930. Whixall Moss, common.
D. lacertinaria. Whixall Moss, common.
Cilix glaucata. Common.

NOLIDAE

Nola cucullatella. Common.
N. confusalis. Common.

SARROTHRIPINAE

Sarrothripa revayana. Candy Wood, one specimen, April 1930.

ARCTIDAE

Spilosoma menthastri. Abundant.
S. lubricipeda. Abundant.
Diaphora mendica. Cabin Lane. An old record.
Arctia caia. Common.
Nudaria mundana. Candy Wood. Common.
Comacla senex. Whixall Moss, July 1930. Not scarce.
Cybosia mesomella. Whixall Moss, July 3rd, 1930. Two specimens.
Lithosia lurideola. Mile House Lane, 1928—at light 1929.
L. complana. Whixall Moss, July 1930. Not scarce.

NOCTUINA.

ACRONYCTINAE

Acronycta leporina. Larvae, Whixall Moss, Sept. 1929, Aug. 1930.
A. psi. Common.
A. menyanthidis. Larvae, Whixall Moss, 1930.
A. rumicis. Common.
Bryophila perla. Common.

TRIFINAE

Agrotis segetum. Common.
A. exclamationis. Common.
A. ypsilon. Common at sugar.
A. saucia. Common at ivy.
Noctua augur. Common.
N. glareosa. Bred from larva off Mullen on Llanymynech Hill, 24th Aug., 1930.
N. c-nigrum. Common.
N. triangulum. Common.
N. rubi. Common.
N. umbrosa. Common.
N. xanthographa. Common.
N. plecta. Common.
Axylia putris. Common.
Triphaena comes. Common.
T. pronuba. Common.
T. fimbria. One specimen at light 11th Sept. 1929.
T. ianthina. Common.
Eurois prasina. Candy Wood, 1928, and bred 1930.
Aplecta nebulosa. Candy Wood, July 1929.
Barathra brassicae. Common.
Mamestra oleracea. Common.
M. genistae. One specimen. An old record.
M. thalassina. Common 1930.
M. pisi. Larvae, Llanrhaiadr, by Mr. C. H. Wallace Pugh, 1929. Also at Whixall Moss, 1930; Racecourse, 1930.

M. dentina. Llanymynech Hill, 1930. Common.
Dianthaecia capsincola. Common.
D. carpophaga. Common at light, May 1929—1930.
Epineuronia popularis. Abundant at gas lamps.
Charaeas graminis. Racecourse. Common.
Eumichtis protea. Ardmillan, 1928; Whixall Moss 1929.
Bombycia viminalis. At light 1928—1929.
Diloba caeruleocephala. Common at gas lamps.
Luperina testacea. Common at gas lamps.
Cerigo matura. At light in town, 1929, 1930. Not Common.
Celaena haworthii. Whixall Moss, one specimen, 14th Sept. 1929.
Apamea basilinea. Whixall Moss, 1930.
A. unanimis. At light in town, 1928.
A. secalis. Common.
Miana strigilis. Common.
Xylophasia rurea. Common.
X. lithoxylea. Common.
X. monoglypha. Common.
Epunda lichenea. Bred from larva off Hound's Tongue on Llanymynech Hill 12 Sept., 1930.
Polia chi. Common.
Brachionycha sphinx. One specimen at gas lamp, Llys Lane. An old record.
Agriopis aprilina. Near Racecourse and Candy Wood. Common.
Euplexia lucipara. Larva, Llanymynech Hill, bred 1929.
Phlogophora meticulosa. Common.
Mormo maura. Common.
Naenia typica. Common.
Hydraecia nictitans. Candy Lane, at sugar, 1928.
H. micacea. Common.
Ochria ochracea. Common at light.
Nonagria typhae. Middleton Pool, Whixall Moss. Common.
Tapinostola fulva. At light, not uncommon.
Leucania pallens. Common.
L. impura. Common.
L. comma. One specimen. An old record.
L. lithargyria. Common.
L. conigera. Common.
Caradrina morpheus. Common.
C. alsines. Common.
C. quadripunctata. Common.
Rusina tenebrosa. At light, July 1930.
Amphipyra pyramidea. Common.
A. tragopogonis. Common.
Pachnobia rubricosa. Common.
Taeniocampa gothica. Common.
T. pulverulenta. Common.
T. stabilis. Common.
T. incerta. Common.
T. munda. One specimen at light, 8 April, 1929.
T. gracilis. Llanforda. Common. April, 1930.
Calymnia affinis. One specimen at sugar, Croeswylan Lane, 1928.
C. trapezina. Common.
Cirrhaedia xerampelina. At gas lamps in town, common Sept. 1929, 1930.
Amethes lota. Common at sugar and ivy.
A. macilenta. Common at sugar and ivy.
A. circellaris. Common at sugar and ivy.

A. lychnidis. Common at sugar and ivy.
A. litura. Common at sugar and ivy.
Cirrhia citrago. Two specimens, Selattyn Road, 1 Sept., 1929.
Xanthia lutea. Racecourse, 1928.
X. fulvago. Common.
Mellinia gilvago. Common at ivy, 1929.
Orrhodia vaccinii. Common.
O. ligula. Common.
Eupsilia satellitia. Common.
Lithomoia solidaginis. One specimen near Ardmillan, at rest on the top of a post. An old record.
Calocampa exoleta. At ivy near Sweeney, 17 Oct., 1929 and 1930.
C. vetusta. At ivy near Sweeney, 22 Oct., 1929.
Cucullia verbasci. Larvae abundant on Llanymynech Hill, 1928, 1930.
C. umbratica. Common.
C. chamomillae, Three larvae, G.W.Rly's New Road through the "Flash," Oswestry, 30 June, 1930.
√**Anarta myrtilli.** Whixall Moss. Common.
Heliaca tenebrata. Mile House Lane, 1929, not uncommon.
Rivula sericealis. Mile House Lane, 1930, one specimen.
Prothymnia viridaria. Llanymynech Hill. Common.

GONOPTERINAE

Scollopteryx libatrix. At ivy, Shelf Bank. An old record.

QUADRIFINAE

Plusia moneta. At light, July 1929, Aug. 1930.
P. chrysitis. Common.
P. iota. Common.
P. pulchrina. At light, 20 June, 1930.
P. gamma Common.
Abrostola triplasia, Shelf Bank. An old record.
A. tripartita. Shelf Bank. An old record.

HYPENINAE

Zanclognatha tarispennalis. Common.
Z. grisealis. Common.
Hypena proboscidalis. Common.
√**Tholomiges turfosalis.** Whixall Moss abundant.

GEOMETRINA.

GEOMETRINAE

Pseudoterpna. pruinata. Llanymynech Hill, 1929.
Geometra papilionaria. Llanymynech Hill and Llynclys Hill, 1930. Whixall Moss 1930.
Iodis lactearia. Mile House Lane, 1929, 1930.
Hemithea strigata. Mile House Lane, 1928, '29, '30, also at Sweeney, 1928.

ACIDALINAE

√**Hyria muricata.** Whixall Moss, July 1930. Not uncommon.
Acidalia subserieceata. At light in town, 1928.
A. interjectaria. At light in town, Aug. 1930.
A. aversata. Common.
A. bisetata. Common.
A. dimidiata. Common.
A. remutaria. Racecourse, 7 June, 1929 and 1930.

A. immutata. Whixall Moss, July, 1930 Common in one spot.
A. imitaria. At light in town. Not uncommon 1929, 1930.
Ania emarginata. Whixall Moss, two specimens 1930.
Timandra amata. Common, Shrewsbury Rd., Mile House Lane.

HYDRIOMENDAE

Ortholitha plumbaria. Llanymynech Hill, Racecourse, common.
O. cervinata. Common.
O. limitata. Common.
Anaitis plagiata. Common.
Carsia paludata. Whixall Moss, abundant.
Chesias spartiata. At light in town, 24 Oct., 1929 and 1930. Not common.
Chaeimatobia brumata. Common.
C. boreata. One specimen at gas lamp, Broomhall Lane, 1928. one female bred 1930 larva from Whixall Moss.
Triphosa dubitata. At light in town, not uncommon.
Eucosmia undulata. Whixall Moss, common July, 1930.
Eustroma silaceata. At light in town, 5 June, 1930, Sept. 1930. Not common.
Lygris prunata. Common.
L. testata. Common.
L. populata. One specimen near Racecourse, 1928.
L. associata. At light in town, 1928, 1929. Not common.
Cidaria pyraliata. Common.
C. fulvata. Common.
C. corylata. Common.
C. truncata. Common.
C. immanata. Common.
C. siterata. Bred, larva off birch in Candy Wood, 16 Sept. 1920.
C. miata. At light in town 1929, 1930. Common.
Thera variata. Candy Wood, Llanymynech Hill. Common.
T. firmata. Candy Wood, one specimen, 1928.
Lampropteryx suffumata. Common.
Coremia unidentaria. Common.
C. ferrugata. Common.
C. designata. Common.
Amoebe viridaria. Common.
Malenydris multistrigaria. Common.
M. didymata. Common.
Oporabia dilutata. Common.
Xanthorhoe montanata. Common.
X. fluctuata. Common.
X. galiata. Llanymynech Hill 1928, 1929. Not common.
X. rivata. Candy Wood. Common.
X. sociata. Common.
Mesolenca ocellata. Common.
Perizoma flavofasciata. At light in town, 9 July, 1930, one specimen.
P. albulata. Llanforda. Common.
P. minorata. Racecourse, not common, July 1929.
Camptogramma bilineata. Common.
Hydriomena furcata. Common.
H. impluviata. Penylan, May 1928, one specimen.
Anticlea badiata. Common.
A. nigrofasciaria. Common.
Euchoeca obliterata. Whixall Moss, 19 June, 1930. Common.

Asthena luteata. Whixall Moss, Common. Llanymynech Hill, one specimen 23 June, 1929.
Eupithecia oblongata. One specimen locality not recorded.
E. pulchellata. Common. Bred May 1930.
E. venosata. Racecourse. Bred May 1930.
E. distinctaria. Llynclys Hill, 1930.
E. assimilata. Common.
E. absinthiata. Common.
E. vulgata. Common.
E. lariciata. Common in Candy Wood.
E. subnotata. Common.
E. subfulvata. Common.
E. haworthiata. Common at light in town 1929, 1930.
E. tenuiata. Bred from Sallow catkins, Llanforda, 1930.
E. fraxinata. At light in town 1930.
E. nanata. Whixall Moss, 1930.
E. abbreviata. Mile House Lane, May 1929.
E. exiguata. Candy Wood, common.
E. castigata. Candy Wood, one specimen, 1930.
Gymnoscelis pumilata. Common at light in town.
Chloroclystis coronata. Shrewsbury Road, 11 May, 1929.
C. rectangulata. Common.

BOARMIINAE

Abraxas sylvata. Breidden Hill. An old record.
A. grossulariata. Common.
Lomaspilis marginata. Llanymynech Hill, Aston, Whittington, and very common on Whixall Moss.
Ligdia adustata. One specimen Mile House Lane, 6 June, 1930.
Bapta temerata. Llanymynech Hill 25 May, 1930 and June 1930.
Cabera pusaria. Common.
C. exanthemata. At light in town, 14 June, 1929. Common on Whixall Moss.
Numeria pulveraria. Common.
Ellopia prosapiaria. Candy Wood. Common.
Metrocampa margaritaria. Candy Wood, common, also at Middleton, 1928.
Ennomos alniaria. Common.
E. fuscantaria. Common.
Selenia bilunaria. Common.
S. lunaria. At light in town 9 June, 1929, one specimen.
Hygrochroa syringaria. At Shelf Bank An old record.
Gonodontis bidentata. Common.
Himera pennaria. Common.
Crocallis elingnaria. Common.
Ourapteryx sambucaria. Common.
Opisthograpis luteolata. Common.
Epione apiciaria. At light in town not uncommon 1930, also at Whixall Moss, 1930.
Venilia maculata. Near Llansilin, by Mr. C. H. Wallace Pugh.
Semiothisa liturata. Candy Wood, 1928, Whixall Moss, 1930.
Hybernia rupicapraria. Common.
H. leucophaearia. Common.
H. marginaria. Common.
H. defoliaria. Common.
H. aurantiaria. At light in town, 1 Dec., 1930. One specimen.
Anisopteryx oescularia. Common.
Phigalia pedaria. Common.

Pachys strataria. Common at gas lamps.
P. betularia. Common, both varieties.
Hemerophila adruptaria. Common.
Boarmia gemmaria. Common.
B. repandata. Common.
Gnosphos obscurata. Common on Llanymynech Hill.
Ematurga atomaria. Common on Llanymynech Hill and Whixall Moss.
Thamnonoma wauari. Common.
Lozogramma petraria. Common on Llanymynech Hill and Racecourse.
Scodiona fagaria. Llynclys Hill one specimen 23 June, 1929.
Perconia strigillaria. Whixall Moss, June 1930.

PYRALIDINA.

PHYCITIDAE

Salebria betulae. Whixall Moss, 1930. Common.
Ephestia elutella. At light in town, 1930. Common.
Homoeosoma nebulella. Whixall Moss, one specimen, 1929.

GALLERIADAE

Aphomia sociella. Common.

CRAMBIDAE

Crambus culmellus. Common.
C. hortuellus. Common.
C. pascuellus. Whixall Moss, Llanymynech Hill, 1930.
C. pratellus. Common.
C. pinellus. Llynclys Hill, 1929.
C. margaritellus. Whixall Moss, 1930.
C. dumetellus. Whixall Moss, 1930.
C. perlellus. Whixall Moss, 1930.
C. inquinatellus. Llanymynech Hill, 1930.
C. geniculeus. Llanymynech Hill, 1930.
C. tristellus. Common.

PYRAUSTIDAE

Cataclysta lemnata. Middleton Pool, 1929.
Nymphula stratiotata. At light in town, 1930, one specimen.
Hydrocampa nymphaeata. Middleton Pool, Llanforda, Common.
Notarcha ruralis. Common.
Eurrhypara urticata. Common.
Phlyctaenia lutealis. Common.
P. prunalis. Common.
P. sambucalis. Common.
Nomophila noctuella. At light in town, 1928, one specimen.
Pyrausta cingulata. Llanymynech Hill, common.
P. purpuralis. Llanymynech Hill, common.
P. cespitalis. Llanymynech Hill, common.
P. olivalis. Common.
Scoparia crataegella. Common.
S. cembrae. Llanforda, 1929, 1930.
S. frequentella. At light in town, 1930.
S. dubitalis. Llanymynech Hill, common.
S. ambigualis. Common.
S. truncicolella. Whixall Moss, 1930.
Mesographe forficalis. Common.

PYRALIDIDAE

Pyralis farinalis. Common.
Aglossa pinguinalis. Common.

PTEROPHORIDAE

Platyptilia acanthodactyla. Whixall Moss, common.
P. gonodactyla. At light in town, 1929, one specimen.
Pterophorus tetradactylus. Llanymynech Hill, common.
P. pentadactylus. Common.
Alucita monodactyla. Llanforda, Whixall Moss, 1930.
A. lithodactyla. Bred, larvae on golden rod, Llanymynech Hill.
Stenoptilia pterodactyla. Common.
S. bipunctidactyla. Llynclys Hill, 1930, one specimen.

ORNEODIDAE

Orneodes hexadactyla. Common.

PSYCHINA.

PSYCHIDAE

Psyche opacella.
Sterrhopterix hirsutella } Larva cases which appear to be these are common on Whixall Moss.

ZYGAENIDAE

Zygaena filipendulae. Llanymynech Hill, Llanforda, common.
Ino statices. Whixall Moss, by Mr. C. Wallace Pugh.

TORTRICINA.

EPIBLEMIDAE

Bactra lanceolana. Llanforda, Middleton Pool, common.
Eucosma betuletana. Whixhall Moss, common.
E. pruniana. Common.
E. lacunana. Common.
E. urticana. Common.
E. variegana. Common.
E. corticana. Whixall Moss, 1930, one specimen.
E. schulziana. Whixall Moss, 1930, common.
E. striana. At light in town, 1930, two specimens.
Enarmonia cruciana. Whixall Moss, 1930, one specimen.
E. woeberiana. Common in gardens.
E. ratzeburgiana. Candy Wood, Llanymynech Hill.
E. pinicolana. Candy Wood, common amongst firs.
E. corticana. Abundant.
Tmetocera ocellana. Common in gardens.
Eudemis naevana. Common amongst holly.
Ancylis uncana. Whixall Moss, 1930.
A. lundana. Common.
Gypsonoma dealbana. Candy Wood, 1929, 1930.
Cydia trimaculana. Candy Lane, 1930.
C. nigromaculana. Candy Wood, 1930.
C. ramella. Whixall Moss, 1930, common.
C. strobilella. Candy Wood, 1929.
Notocelia rosaecolana. Common.
N. trimaculana. Common.
N. tetragonana. Llanforda, 1930, Shrewsbury Road, 1929.
Epiblema demarniana. Whixall Moss, 1930, one specimen.
E. similana. Whixall Moss, common.

E. tripunctana. Common.
E. nisella. Whixall Moss, Craignant, common.
E. penkleriana. Common.
E. trigeminana. Whittington Road, 1930, one specimen.
E. solandriana. Common.
E. cana. Llynclys Hill, 1929.
E. pflugiana. Llanymynech Hill, Racecourse, common.
E. brunnichiana. Shrewsbury Road, 1929, 1930.
E. tedella. Candy Wood, abundant.
Hemimene petiverella. Shelf Bank, 1930, Llanymynech Hill, 1929.
H. plumbagana. Common.
H. tanaceti. One specimen ; locality unrecorded.
Lipoptycha plumbana. Bwlch quarries, 1929.
Pammene argyrana. Mile House Lane, common 1929, 1930.
P. populana. Whixall Moss, 1930, Llanforda 1930, common.
Laspeyresia internana. Llanymynech Hill, Llanforda, common.
L. ulicetana. Llanymynech Hill, Racecourse, common.
Carpocapsa pomonella. One specimen in the town, 1929.
C. juliana. Two specimens, Llynclys Hill, 1930.
C. splendana. Llynclys Hill, Whixall Moss, larvae in acorns not yet bred out.
Epinotia hypericana. Llanforda, 1929, 1930, common.

TORTRICIDAE

Rhacodia caudana. Llynclys Hill, Racecourse, Whixall Moss, common.
Acalla sponsana. Common.
A. literana. Near Racecourse, April 1928, one specimen.
A. variegana. Common.
A. schalleriana. Common.
A. holmiana. Common.
A. contaminana. Common.
A. ferrugana. Common.
Epagoge grotiana. Whixall Moss, 1930.
Capua angustiorana. Common.
Cacoecia podana. Common.
C. unifasciana. Common.
C. rosana. Common.
C. costana. Common.
C. musculana. Common.
C. sorbiana. Whixall Moss, 1930.
C. xylosteana. Common.
Pandemis corylana. Selattyn Road, 1929.
P. ribeana. Racecourse, 1930.
P. heparana. Common.
P. cinnamomeana. Candy Wood, 1930, one specimen.
Tortrix forkskaleana. Common.
T. bergmanniana. Common.
T. viridana. Common.
T. incertana. Common.
T. viburniana. Whixall Moss, 1930.
T. ministrana. Common.
T. conwayana. Common.
T. forsterana. Common.
T. osseana. Common.
T. nubilana. Common.
T. politana. Whixall Moss, 1930.

T. pascuana. Common.
Isotrias hybridana. Common.
Cheimatophila tortricella. Candy Wood, common.

PHALONIADAE

Phalonia ciliella. Llanforda, very local, 1929.
P. cnicana. Candy Wood, 1930, one specimen.
P. nana. Whixall Moss, 1930, abundant.
Euxanthis angustana. Whixall Moss, 1930, abundant.
E. hamana. Common.
E. zoegana. At light in town 1929, Mile House, 1930.
E. straminea. Llanforda, 1930, common.

COSSIDAE

Cossus cossus. Ash trees attacked by this are common about here but I have not come across the moth.

TINEINA.

SESIIDAE

Sesia tipuliformis. Common in gardens—bred 1929, 1930.

GELECHIADAE

Aristotelia ericinella. Whixall Moss, common.
Xenolechia aethiops. Common.
Gelechia affinis. Middleton Road, 1929, 1930, common.
G. similis. Candy Wood, 1929.
G. sequax. Llanforda, 1929.
G. maculella. Shrewsbury Road, 1929.
G. diffinis. Candy Wood, 1929.
G. terrella. Candy Wood, 1930, very common.
G. politella. Llanforda, 1929.
G. ericetella. Whixall Moss, 1930, very common.
G. scriptella. Llanforda, 1930, very local.
G. costella. Whixall Moss, 1930.
Recurvaria cinerella. Llanforda, 1930.
Chelaria huebnerella. Penylan Lane, Shrewsbury Road, 1929, 1930.

OECOPHORIDAE

Carcina quercana. Common.
Pleurota bicostella. Whixall Moss, abundant.
Chimabache fagella. Abundant.
Semioscopis avellanella. Candy Wood, 1929, scarce.
Depressaria arenella. Common.
D. ocellana. Common.
D. applana. Common.
D. heracliana. Common.
D. douglasella. At light in town, 1929.
D. capreolella. Llanymynech Hill, 1929.
Harpella geoffrella. Common.
Oecophora sulphurella. Common.
Acompsia pseudospretella. Common.
A. minutella. Whixall Moss, 1930.
Amphisbatis incongruella. Whixall Moss, 1930, common.

ELACHISTIDAE

Coleophora gryphipennella. Llanforda, 1930.
C. genistae. Llanymynech Hill, 1929.
C. viminetella. Llanymynech Hill, 1929.
C. troglodytella. Llanymynech Hill, 1929.
C. caespititiella. Llanforda, 1929, 1930, common.
C. albicosta. Llynclys Hill, 1930.
C. fuscedinella. Whixall Moss, 1930, common.
C. lutipennella. Shrewsbury Road, 1930. Common.
Elachista triatomea. Llanymynech Hill, 1930.
E. luticomella. Candy Wood, 1929, 1930.
E. dispunctella. Candy Wood, 1929.
E. cygnipennella. Abundant.
E. albifrontella. Racecourse, 1930, abundant.
E. perplexella. Candy Wood, 1929.
E. rufocinerea. Abundant.
E. obscurella. Candy Wood, 1930.
Limnoecia phragmitella. Ellesmere Mere, 1930, bred.
Chrysoclista aurifrontella. Shrewsbury Road, 1929, common.
C. atra. Common.
Mompha miscella. Llanymynech Hill, 1929, abundant.
M. ochraceella. Whixall Moss, 1930.
Antispila pfeifferella. Llanymynech Hill, 1930.
Endrosis lacteella. Abundant.
Cataplectica fulviguttella. Whixall Moss, 1930.
Schreckensteinia festaliella. Candy Wood, 1929, 1930, common.
Epermenia chaerophyllella. Candy Wood, 1930.

PLUTELLIDAE

Prays curtisellus. Common.
Yponomeuta evonymellus. Abundant—larvae in webs on bird cherry.
Y. cognatellus. Penylan Lane, 1929, one specimen.
Y. padellus. Llynclys Hill, 1930, bred.
Cerostoma xylostella. Common.
C. radiatella. Common.
C. costella. Common.
C. sequella. Candy Wood, common.
C. vittella. Candy Wood, not very common.
Plutella porrectella. Shrewsbury Road, 1929.
P. annulatella. Penylan Lane, 1929.
P. cruciferarum. Mile House Lane, 1929.
Glyphipteryx fuscoviridella. Common.
G. fischeriella. Common.
G. thrasonella. Llanymynech Hill, Middleton Pool, common.
Simaethis fabriciana. Abundant.

TINEIDAE

Nepticula argentipedella. Llynclys Hill, Whixall Moss, abundant.
N. floslactella. Common.
N. cryptella. Candy Wood, 1930.
N. hodgkinsoni. Candy Wood, 1930.
Opostega salaciella. Candy Wood, 1929.
Oinophila v-flavum. In centre of town 1929, one specimen.
Lithocolletis cramerella. Abundant.
L. salicicolella. Llanforda, 1930.
L. faginella. Candy Wood, 1930, abundant.
L. spinolella. Llynclys Hill, 1930.

L. sylvella. Shrewsbury Road, 1930, one specimen.
L. spinicolella. Abundant.
L. quercifoliella. Abundant.
L. cavella. Shrewsbury Road, 1930.
L. pomifoliella. Shrewsbury Road, 1930.
L. nicellii. Llynclys Hill, 1930.
L. alnifoliella. Aston, Sweeney, 1930.
L. stettinensis, Sweeney, 1930.
Ornix guttea. Shrewsbury Road, 1929, one specimen.
O. scoticella. Racecourse, 1929.
O. torquillella. Candy Wood, 1929.
O. anglicella. Abundant.
O. avellanella. Abundant.
O. betulae. Whixall Moss, 1930.
Gracilaria alchimiella. Candy Wood, 1929, 1930, common.
G. phasianipennella. Shrewsbury Road, 1929.
G. syringella. Common.
G. tringipennella. Llanforda, local, 1930.
G. elongella. Candy Wood, not common, 1929, 1930.
G. populetorum. Llanforda, 1929.
Leucoptera laburnella. Abundant.
Lyonetia clerkella. Candy Wood, 1929.
Phyllocnistis suffusella. Aston, 1930, common.
Ocnerostoma piniariella. Candy Wood, common 1929, 1930.
Cedestis gysseleniella. Candy Wood, common 1930.
Argyresthia brockeella. Candy Wood, Whixall Moss, 1929, 1930.
A. sorbiella. Racecourse, 1929.
A. retinella. Whixall Moss, 1930. Llynclys Hill, 1929.
A. spiniella. Shrewsbury Road, 1929.
A. semitestacella. Shrewsbury Road, 1929.
A. goedartella. Candy Wood, Whixall Moss, common.
A. mendica. Llanforda, 1929.
A. conjugella. Common.
A. nitidella. Common.
Swammerdamia combinella. Abundant.
S. caesiella. Llynclys Hill, 1929, 1930.
S. heroldella. Whixall Moss, 1930, common.
S. lutarea. Abundant.
S. pyrella. Common.
Incurvaria muscalella. Common.
Phylloporia bistrigella. Whixall Moss, 1930.
Monopis rusticella. Common.
Trichophaga tapetiella. Common.
Tinea arcella. Racecourse, 1929, 1930.
T. cloacella. Common.
T. pallescentella. Common.
T. corticella. Llanforda, 1929.
T. fuscipunctella. Common.
T. lapella. Mile House Lane, 1929, 1930.
Nemophora schwarziella. Common.
Adela fibulella. Mile House Lane, 1929.
A. degeerella. Whixall Moss, 1930, common.
A. viridella. Candy Wood, Llanymynech Hill, Mile House Lane, 1930.

MICROPTERYGINA.

HEPIALIDAE

Hepialus humuli. Common.
H. sylvina. Common at light in town 1929.
H. fusconebulosa. Common on Racecourse.
H. lupulina. Common.
H. hecta. Candy Wood, Whixall Moss.

MICROPTERYGIDAE

Micropteryx subpurpurella. Candy Wood, common.
Eriocephala aureatella. Candy Wood, 1929, one specimen.
E. calthella. Abundant.
E. aruncella. Abundant.
E. thunbergella. Candy Wood, Llynclys Hill, 1930.

Notes to the above list :—

Llanforda = The Racecourse road as it passes Liverpool Waterworks.
Candy Wood = Chiefly that part near the Racecourse and the rough ground by the Bwlch quarries.
Whixall Moss = That part adjoining the S.U. Canal on the towpath side.
Shrewsbury Road = As far as Aston Park.
An old record = refers to 25—30 years ago. I have not come across these during the last four years.

J. HIGNETT,
Oswestry, March 1931.

SHROPSHIRE DIPTERA, 1930.

ADDITIONS TO LIST OF SHROPSHIRE DIPTERA, 1930.

MYCETOPHILIDAE

Allocotocera pulchella (Curt.) Whixall Moss, 23 Aug. On Umbelliferae.

BIBIONIDAE

Scatopse nigripennis (Mg.) (=**infumata, Hal.**) Whixall Moss, 23 Aug.

CHIRONOMIDAE

Dasyhelea versicolor (Winn.) May. Common in garden.
D. dufouri (Lab.) July. Garden.
Stilobezzia gracilis (Hal.) Morda Brook, 27 June. Swarm of males.
Prodiamesa olivacea (Mg.) Common, Spring.
Tanypus nubilus (Mg.) April—May.
T. lentiginosus (Fries.) 25 May, 2 m., 1 f.
T. hirtimanus (Kieff.) May—June.
T. cingulatus (Walk.) 25 May, Trefonen, 1 m.
Metriocnemus picipes (Mg.) Common in Spring.
Brillia modesta (Mg.) Common in Spring.
B. longifurca (Kieff.) Morda Brook, 1 May.
Orthocladius perennis (Mg.) (=**brunnip, ztt.**) Very common.

Smittia (Camptocladius) aterrima (Mg.) Common.
S. leucopogon (Mg.) 25 May.
Psectrocladius platypus (Edw.) Whixall Moss, 25 April.
Cricotopus sylvestris (F.) July, several males.
C. motitator (L.) Common.
C. pilitarsis (Ztt.) Whixall Moss, 9 April.
C. tremulus (L.) Sept., 1 m.
Polypedilum laetum (Mg.) Melverley, 26 May, 1 m.
Tanytarsus gmundensis (Egg.) Common in Spring.
T. fuscus (Mg.) Whixall, Penygwely, April.
Stempellina bausei (Kieff.) Morda Brook, 27 Aug. Swarm of both sexes.

PSYCHODIDAE
Psychoda sexpunctata (Curt.) Nov., 1 m.

LIMNOBIDAE
Limnobia quadrinotata (Mg.) Whixall Moss, 23 Aug., 1 m., 1 f.
Dicranomiya lucida (Meij.) Morda Brook, 27 June, 1 f.
Erioptera trivialis (Mg.) Common in rushes.
Limnophila filata (Walk.) Racecourse, Oswestry, July.

TIPULIDAE
Tipula flavolineata (Mg.) Whixall Moss, Sept.

DOLICHOPODIDAE
Dolichopus longicornis (Stan.)
D. atripes (Mg.) Whixall Moss, 23 Aug., 1 m.
Hypophyllus discipes (Ahr.) 16 July, 1 m.
H. obscurellus (Fln.) Candy, 17 Aug., several.

PLATYPEZIDAE
Callimyia amoena (Mg.) Whixall Moss, 23 Aug., 1 m.

SYRPHIDAE
Chrysogaster macquarti (Lw.) Common.

MUSCIDAE
Protocalliphora azurea (Fln.) July, 2 m.

ANTHOMYDAE
Myopina reflexa (R-D.) Melverley, 30 May.
Coenosia tricolor (Mde.) July.
C. humilis (Mg.) May, Hotbed.
Alloeostylus simplex (W.) 11. Oct., 1 f.

ACALYPTRATAE
Trichopalpus fraternus (Mg.) Morda, 19 July, 1 m.
Suillia notata (Mg.) Whixall Moss, 23 Aug., 1 f.
(=**pectoralis, Lw.**).
S. affinis (Mg.) Aug., 1 m.
Ecpoptomera microps (Mg.) 17 Aug., 1 m.
Allophyla atricornis (Lw.) Whixall Moss, 23 Sept., 1 m.
Thelida atricornis (Mg.) June, 1 f.
Sciomyza albocostata (Fln.) Candy Woods, June—July.
Ditaenia cinerella (Fln.) Candy Woods, 11 June, 1 m.
Elgiva rufa (Pz.) 9 May, 1 f.
Pherbina punctata (F.) Whixall Moss, 23 Sept., 1 f.

Lonchaea tarsata (Fln.) May. Bred from pupae in bark.
Sapromyza decipiens (Lw.) July.
S. praeusta (Fln.) July.
Drosophila fenestrarum (Fln.) Garden, early spring.
Phytomyza flavicornis (Fln.) April, bred nettle stems.
P. syngenesiae (Hardy). July. Bred from mines in leaves of milk thistle.
P. ranunculi (Schrk.)
var. zetterstedti (Schin.) (Spring form) May.
var. notata (Mg.) (Summer form) Aug.-Sept.
P. rufipes (Mg.) 8 June, 1 m.
Liriomyza (Agromyza) flaveola (Fln.) 2 pairs.
Limosina crassimana (Hal.) April, stable manure.
L. limosa (Fln.) Sept.
Opacifrons humida (Hal.). Morda, April, wet mud.
Collinella fontinalis (Fln.) March, stable manure.
Beckerina umbrimargo (Beck.) 16 July, 1 pair.
Dohrniphora abdominalis (Fln.) Whixall Moss, 23 Aug., 1 f.
Hypocera incrassata (Mg.)

All taken at or near Oswestry by C. H. Wallace Pugh, unless otherwise stated.

METEOROLOGY.

I have no losses to record among observers during the year except the closing of the station in Abbey Foregate, Shrewsbury, from which a few months' observations were included in the report for 1929. No new observers have been secured. But I am very glad again to acknowledge the full and valuable reports sent in from Harper Adams College by the courtesy of Dr. C. Crowther, the Principal, and from the Shrewsbury Isolation Hospital station, by the kindness of the Superintendent, Dr. A. D. Symons.

The weather of 1930 was a moderate success, with no very marked or exceptional features. The rainfall was considerably above the average everywhere, January and July showing excess, and the four last months of the year giving, as to most observers' stations, some 40 per cent. of the year's total. Of the winter months January was warm and wet, February cold and dry, and March wet and cold, with frost of exceptional intensity on the 20th, when a minimum of 3° Fahr. was recorded in the screen at Harper Adams College, and a phenomenal record of 6 degrees below zero on the grass, or 38 degrees of frost. There was little snow early or late in the year. As to the summer, June gave a genial warm spell early in the month, July was cool and wet, and August variable with a short heat wave during the last week. Temperatures of 87 degrees were common with one or two higher records, but the heat experienced was less intense than in the south of the country. The year generally appears to have been unfavourable to fruit crops, and potatoes suffered from the wet. Grass crops were heavy and good, while cereals are reported as generally below average, and roots about average.

MONTHLY NOTES, 1930.

Notes on the chief features of the weather of each month are furnished by—No. (17) W. Bayliss, Esq., Bridgnorth; No. (24) Harper Adams College; No. (25) J. W. Nowell, Esq., Roden.

JANUARY—

(17) Wind chiefly W. or N.W. (24) Frost on 7 mornings. lowest minimum on grass 24° on 12th. Snow fell, 1 day, 1″ deep. Fog, at 9 a.m., 5 days. (25) Rough, stormy month.

FEBRUARY—

(17) Wind chiefly N.E. or E. (24) Frosts on 14 mornings, lowest minimum on grass 17° on 17th and 21st. Snow fell on 4 days. Fog, at 9 a.m., 4 days. (25) Exceptionally dry with sharp frosts.

MARCH—

(17) Wind chiefly N.W. or W. (24) Frosts on 11 mornings, lowest minimum on grass *minus* 6° on 20th. Snow fell on 5 days. Fog, at 9 a.m., 2 days. (25) Wet month with snow on 14th, 15th, and 18th.

APRIL—

(17) Wind W. or N.W. and N.E. Thunder, 2nd. (24) Frosts on 3 mornings, minimum on grass 24° on 12th. (25) Cold, wet month.

MAY—

(17) Wind N.W. or W. Thunder on 3rd and 26th. (24) Frosts on 4 mornings; minimum on grass 26° on 1st. Fog, at 9 a.m., 1 day. (25) Sharp frosts early part, then wet.

JUNE—

(17) Wind W. or E. Thunder 30th. (24) Minimum on grass 33° on 9th, 16th and 26th. Thunder heard twice. (25) Dry and hot, with heavy thunderstorm on 18th.

JULY—

(17) Wind chiefly W. Thunder on 30th. (24) Minimum on grass 36° on 7th and 12th. Thunder heard on 30th. (25) Rain, more or less, each day after 8th.

AUGUST—

(17) Wind chiefly W. Gale 17th and 21st. Thunder 29th (24) Minimum on grass 36° on 24th and 25th. Thunder heard on 25th and storm on 29th. (25) Showery most of month.

SEPTEMBER—

(17) Wind chiefly S.W. or E. Gale 17th and 19th. (24) Minimum on grass 34° on 16th and 19th. Gale 19th. (25) Wet month.

OCTOBER—

(17) Wind chiefly S.W. or N.W. Gale 8th, 24th, 25th. (24) Ground frost on 6 mornings; minimum on grass 25° on 27th. (25) Very wet most of month.

NOVEMBER—

(17) Wind chiefly W. Gale 2nd and 18th ; big gale 22nd. (24) Ground frosts on 15 mornings; minimum on grass 14° on 17th. Fog on 1 morning. Sleet fell on 22nd. (25) Wet, with very sharp frosts on 17th and 18th.

DECEMBER—

(17) Wind chiefly S.E. or S.W. Gale on 27th. (24) Frosts on 16 mornings; miminum on grass 16° on 10th. Snow fell on 9th, 1½″ deep. Fog, at 9 a.m., 3 days. (25) Dull, wet month.

Alderman E. Griffiths, Bishop's Castle, an observer for over 50 years, notes as features of the year, that the rainfall totalled 40.87 inches, his average for the 20 years 1910-29 having been 31.00 inches. March was unusually foggy. In June, in a thunderstorm on the 18th, 0.68 ins. of rain fell in 20 minutes. On July 10th a Solar halo was seen at 12-35 p.m., and following it on the 13th a comparative drought was broken up, with good rains on 16 days of the rest of this month. He notes also the equable rainfall in each of the four last months of the year. (This may be noted also in most of the observers' returns in Table 2).

NOTES ON THE WEATHER AS AFFECTING CROPS, ETC.

Mr. G. T. Watson, Burwarton Hall Gardens.—All kinds of fruit trees blossomed profusely, but owing to a long spell of cold, wet weather, experienced during the time they were opening their flowers, the crops were very light. The same applies to the late crops in the kitchen garden, especially with peas—plenty of blossom, but owing to the lack of sunshine did not come to maturity.

E. Griffiths, Bishop's Castle.—Fruit crops generally good.

Major W. H. B. Whitaker, Totterton Hall.—Poor fruit year. Heavy hay crops but a good deal damaged by rain.

E. Compton, Esq., Oswestry.—The continuously wet autumn seriously affected school garden work both with regard to gathering crops, and also preparation of ground for next season.

J. A. Narraway, Esq., Dorrington School.—The rainfall during the last six months of the year caused a good many potato crops to go bad, especially on stiff land.

T. F. Chard, Esq., Shifnal.—The weather was favourable to the following fruits: strawberries, currants, apples, pears and plums, excellent crops being gathered.

The following notes, received from the Harper Adams College, through the kind courtesy of the Principal, Dr. C. Crowther, are supplied by H. E. F. Maddrell, Esq., meteorological observer and crop recorder at the College, and are of special value and interest as giving an authoritative review of the year's weather as regards agriculture in the County.

CEREALS—

Drilling of spring cereals was held up in March by wet and cold weather until the last week of the month. Winter cereals were a poor colour in March and April owing to leaching of Nitrogen from the soil due to the abnormal rainfall. The dry and hot June resulted in many spring cereal crops being short in the straw, while unduly favouring the growth of the undersown seeds, which in places at harvest was as high as the covering cereal crop. Harvesting of cereals was carried out mainly during the fine periods, the 25th to the 29th of August—a short heat wave—the 1st to the 8th September, and the end of September and beginning of October, abnormal rain between these times making harvesting difficult. Winter wheat gave disappointing yields. Yields of oats average to low, and a great deal laid by the wet; and difficult to harvest, with abnormal growth of seeds. Barley average to low yield.

ROOTS—

The drilling of root crops was made very late by the wet weather, only a small proportion of root land being sown before the 29th of April, and that on the lighter soils. From the 29th of April to the 5th May root sowing was pushed ahead under favourable conditions. Tilth on heavier soils difficult to obtain. June was very favourable for hoeing and cleaning root crops. Sugar Beet during this period got away well. Mangolds on the other hand made a slow start and suffered from mangold fly and irregular germination. Swedes sown in early June did not germinate till heavy rain of the 30th. A bad attack of flea beetle on swede crops was reported, and second and even third sowings were resorted to. The wet July was favourable for root crops, although hoeing and cleaning was difficult. All root crops continued to grow well up till the time of lifting. Mangolds

were an average crop. Sugar Beet gave an average yield but were low in sugar content. Swedes were an average crop.

GRASS—

Weather conditions generally during the season were excellent for the growth of grass, and many farmers were unable to cope with the increased bulk owing to the favourable conditions for its growth. Excellent crops of both seeds and meadow hay were cut in June and up to the 10th of July under good conditions. After that time much uncarried hay was spoilt by the wet weather. During the short dry periods of August and September more hay was cut and carried, and many excellent crops of aftermath secured.

H. E. F. MADDRELL,
Crop Recorder.

The following table, abstracted from the returns, is of special interest as comparing the main features of the year's weather observed at three stations in the County officially rated as first class Meteorological Stations, and representative of the Mid-Shropshire area, and of the lower levels of the Shropshire Plain.

Observer :	Harper Adams College. H. E. F. Maddrell.		Roden. J. W. Nowell.		Shrewsbury, Monkmoor. H. A. Howe.		Average of 27 Observers.
Altitude, Feet	211		208		185		—
Total Rainfall 1930 ...	32.88		33.38		34.34		35.7
No. of Rain Days ...	196		209		208		206
(Temperature each month in Degrees Faht.)							
	Highest	Lowest	Highest	Lowest	Highest	Lowest	
January ...	56	26	57	23	60	25	
February ...	49	23	46	20	49	21	
March	55	3	57	8	58	9	
April	62	28	68	26	64	27	
May	69	29	68	28	69	30	
June	80	37	81	35	80	37	
July	76	42	78	42	77	45	
August	87	43	87	37	87	43	
September ...	70	40	72	36	74	40	
October ...	63	31	65	31	65	32	
November ...	58	20	57	18	60	20	
December ...	52	21	50	19	55	20	
Average ...	64.75	28.6	65.2	27.0	66.5	29.1	

SUNSHINE.

Mr. H. A. Howe supplies a valuable table of his records at the Shrewsbury Monkmoor Isolation Hospital Station. I give it here with figures for monthly hours of sunshine at Harper Adams College, for comparison.

Month.	Harper Adams College.	Monkmoor Isolation Hospital.		
	Total Hours	Total Hours.	Sunshine. Days on which sunshine was Recorded.	Maximum Sunshine in a day. Hours.
January ...	53.4	63.7	21	6.2 on 6th and 29th.
February ...	43.9	38.2	16	7.6 on 16th.
March	92.1	93.6	26	8.4 on 22nd.
April	101.9	100.4	25	12.1 on 30th.
May	130.6	133.7	29	12.9 on 14th.
June	205.8	229.4	29	14.1 on 8th.
July	140.6	156.4	29	14.9 on 5th.
August	174.0	179.4	31	13.5 on 16th.
September ...	118.2	112.1	28	9.3 on 24th.
October	93.1	105.3	29	8.6 on 12th.
November ...	61.7	65.3	21	6.9 on 4th.
December ...	31.4	33.3	17	4.5 on 14th.
TOTAL	1246.7	1310.8	301 days.	

EXTREMES RECORDED.

Greatest Rainfall in 24 hours	Bishop's Castle, July 20	2.03
,, ,, ,,	Church Stretton ,,	2.03
Greatest Total fall during year	Oswestry Reservoir ...	46.69
,, ,, ,,	Church Stretton ...	45.00
Least Total fall during year	Bitterley	28.09
,, ,, ,,	Shrewsbury, Coton Hill	30.19

Lowest Temperature, Harper Adams College, March 20 3°
Highest Temperature, Bridgnorth, August 29th ... 93°
Wettest months, January, July, September to December.
Driest months :—February and June.

M. GEPP.

TABLE No. I.

NAMES OF OBSERVERS AND STATIONS.

NO.	ALTITUDE. FEET.	STATION.	OBSERVER.	LATITUDE. ° ′ ″	LONGITUDE. ° ′ ″
(1)	894	Burwarton	Mr. G. T. Watson	52 27 30	2 34 0
(2)	720	Bishop's Castle	E. Griffiths, Esq.	52 30 0	3 0 0
(3)	700	Totterton, Lydbury North	Major W. H. B. Whitaker	52 5 0	2 56 30
(4)	698	Reservoir, Oswestry	G. W. Lacey, Esq.	52 48 0	3 3 0
(5)	582	Church Stretton	Mr. E. J. Marsh	52 30 49	2 49 33
(6)	570	Longden Manor	W. Swire, Esq., C.B.E.	52 38 45	2 50 50
(7)	509	Bitterley	Prebendary J. R. Burton	52 23 40	2 38 0
(8)	490	Chirbury	Lt.-Col. S. D. Price Davies	52 34 0	3 4 0
(9)	460	Alveley	Capt. H. D. Wakeman Colville, R.N.	52 28 20	2 20 0
(10)	450	Oswestry	E. Compton, Esq.	52 48 0	3 3 0
(11)	370	Diddlebury	V. S. Wrigley, Esq.	52 27 25	2 43 30
(12)	350	Norton-in-Hales	C. Chadwick, Esq.	52 56 30	2 26 30
(13)	350	Dorrington	Mr. J. A. Narraway	52 37 0	2 45 0

TABLE No. 2—continued.

		JAN.	FEB.	MAR.	APL.	MAY	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(16)	Sansaw ...	5.31	.70	3.38	3.37	2.41	1.26	4.01	2.90	3.64	4.83	3.51	3.94	39.26
(17)	Cantreyn, Bridgnorth	4.69	.44	3.14	2.82	2.53	.75	3.89	2.46	2.99	3.40	3.22	3.27	33.60
(18)	Shifnal ...	4.00	.43	3.32	2.27	1.77	.61	4.30	2.20	3.11	3.20	3.20	3.83	32.24
(19)	Newport ...	4.09	.40	3.38	2.26	2.23	.70	5.19	2.90	2.92	3.37	3.22	3.17	33.83
(20)	Whitchurch ...	4.79	.40	3.27	3.01	2.59	.34	5.00	2.84	3.60	3.67	3.01	3.74	36.26
(21)	Shrewsbury (Copthorne)	4.22	.62	3.36	2.28	1.51	1.03	3.66	1.26	2.90	3.21	3.32	3.16	30.53
(22)	Fitz ...	4.30	.69	2.99	2.56	1.94	1.44	3.62	2.39	3.15	3.24	3.29	3.37	32.98
(23)	Radbrook, Shrewsbury	3.41	.79	3.36	2.57	1.86	.97	3.53	1.98	3.42	3.04	3.19	3.10	31.22
(24)	Harper Adams College	4.20	.35	3.29	2.33	2.02	1.10	4.87	2.73	2.93	3.00	3.04	3.02	32.88
(25)	Roden ...	4.46	.30	3.21	2.53	2.27	1.75	3.90	1.96	2.75	4.05	3.21	2.99	33.38
(26)	Shrewsbury (Coton Hill)	4.05	.65	3.02	2.30	1.77	.68	3.49	1.83	3.05	3.06	3.23	3.06	30.19
(27)	Shrewsbury (Monkmoor)	4.32	.65	3.51	2.95	2.28	.98	4.12	2.11	3.13	3.76	3.35	3.18	34.34

Total for year ... 964.14

Average for year ... 35.7

TABLE No. 3.

GREATEST RAINFALL IN 24 HOURS, WITH DATES.

		Jan.	Day	Feb.	Day	Mar.	Day	Apl.	Day	May	Day	June	Day	July	Day	Aug.	Day	Sept.	Day	Oct.	Day	Nov.	Day	Dec.	Day
(1)	Burwarton ...	1.10	26	.29	1	.92	15	.50	3	.45	6	.24	1	1.50	20	.79	21	.93	17	.48	3	.60	1	.65	11
(2)	Bishop's Castle	.74	9	.25	1	.92	14	.65	3	.51	30	.91	18	2.03	20	.63	20	.98	19	.83	3	.62	2	.65	10
(3)	Totterton ...	.75	14	.22	1	.82	14	.60	9	.35	30	.25	10	1.71	20	.71	29	.58	13	.70	3	.47	3	.50	28
(4)	Oswestry Res.	.91	9	45	15	69	14	.76	4	.57	5	.35	18	1.04	20	1.14	20	1.26	13	.62	3	.72	22	.92	30
(5)	Church Stretton	.99	26	.45	1	.65	6	.61	9	.78	26	.16	10	2.03	20	1.02	20	.86	19	.66	3	.76	2	.83	10
(6)	Longden Manor	.79	27	.32	2	.81	15	.34	25	.54	6	.39	18	1.30	20	.50	21	.54	20	.66	4	.72	2	.55	11
(7)	Bitterley ...	.79	26	.35	15	.64	6	.45	1	.40	26	.54	1	1.23	20	.45	20	.49	15	.34	15	.40	1	.44	10
(8)	Chirbury ...	.77	26	.50	1	.50	16	.55	9	.39	30	.24	19	1.50	20	.60	20	.86	19	.66	3	.61	2	.73	30
(9)	Alveley ...	1.05	14	.30	1	.65	14	.32	1	.57	5	.27	18	2.00	20	.93	20	.73	17	.55	3	.55	28	.63	10
(10)	Oswestry ...	.90	9	.35	1	.50	6	.70	9	.42	5	.29	18	1.00	20	.91	19	1.05	13	.60	3	.72	22	.95	10
(11)	Diddlebury ...	.86	14	.34	15	.61	6	.66	3	.68	26	.41	1	1.62	20	.81	20	.73	19	.56	3	.72	1	.60	10
(12)	Norton-in-Hales	.72	26	.27	1	.55	6	.49	14	.53	9	.45	18	1.74	20	.43	20	.61	17	.75	3	.61	2	.54	10
(13)	Dorrington ...	.92	9	.25	15	.35	31	.42	8	.43	8	.76	17	1.56	19	.34	19	.88	19	.50	3	.50	1	.41	12
(14)	Bromfield ...	.92	10	.18	1	.86	3	.54	6	.88	3	.22	1	1.60	20	.72	20	.77	17	.48	15	.38	1	.66	10
(15)	Oakley Park ...	.84	10, 14	.25	15	.83	6	.62	3	.52	3	.46	1	1.65	20	.68	20	.77	17	.52	15	38	1	.82	10
(16)	Sansaw ...	.92	26	.29	1	.49	6	.45	9	.61	9	.43	18	1.22	20	.54	22	.78	19	.85	3	.78	1	.73	10
(17)	Cantreyn, Bridgnorth ...	.75	14	.20	1	.60	14	.39	24	.63	5	.45	30	1.77	20	.66	20	.74	17	.74	24	.61	2	.64	10
(18)	Shifnal ...	.68	14	.22	1	.60	14	.32	13	.59	5	.27	30	.51	14,20	60	20	.72	17	.57	3	.52	28	.59	11
(19)	Newport ...	.66	14	.22	1	.78	14	.29	3, 14	.64	5	.46	18	1.58	21	.56	7	.73	17	.66	3	.42	1	.71	30
(20)	Whitchurch ...	.75	14	.13	1	.65	6	.48	4	.52	5	.14	18	1.45	20	.68	20	.66	19	.72	3	.49	1	.69	10
(21)	Shrewsbury, Copthorne ...	.76	26	.27	1	.48	6	.44	9	.47	9	.71	18	1.65	20	.35	20	.62	19	.69	3	.84	1	.71	30
(23)	Radbrook, Shr'y	.80	26	.27	1	.72	20	.40	3, 9	.47	9	.60	18	1.56	20	.47	22	.90	19	.72	3	.83	1	.70	30
(24)	Harper Adams College ...	.63	14, 26	.19	1	.55	14	.33	13	.59	5	.42	30	1.57	20	.56	20	.61	17	.63	3	.54	1	.67	30
(25)	Roden ...	.98	26	.18	1	.62	14	.33	9, 25	.71	9	1.31	18	1.48	20	.41	22	.51	19	1.70	3	.63	1	.70	30
(26)	Shrewsbury, Coton Hill ...	.77	26	.27	15	.54	6	.34	9	.49	5	.48	18	1.67	20	.40	20, 22	.79	19	.79	3	.76	1	.85	30
(27)	Shrewsbury, Monkmoor ...	.91	26	.28	1	.50	6	.48	9	.62	9	.65	18	1.72	20	.46	22	.72	19	.76	3	.75	1	.77	30

TABLE No. 4.

RAINY DAYS.

A Rainy Day means a day in which at least .01 of rain fell.

			JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.	TOTAL
(1)	Burwarton	...	20	9	18	18	18	10	20	21	16	25	17	20	212
(2)	Bishop's Castle	...	20	9	20	17	16	9	20	21	16	23	17	20	208
(3)	Totterton	...	21	9	17	19	17	7	22	19	20	25	17	20	213
(4)	Oswestry Reservoir	...	23	9	20	20	14	13	17	19	17	25	20	22	219
(5)	Church Stretton	...	22	10	17	20	20	13	23	21	20	26	19	20	231
(6)	Longden Manor	...	23	8	14	22	18	12	17	21	18	23	20	19	215
(7)	Bitterley	...	18	5	15	16	17	10	17	19	17	23	18	17	192
(8)	Chirbury	...	20	8	19	17	17	6	17	19	12	24	15	16	190
(9)	Alveley	...	18	7	13	16	16	10	17	19	15	25	16	19	191
(10)	Oswestry	...	23	8	15	18	14	12	15	17	16	23	19	18	198
(11)	Diddlebury	...	23	9	16	19	21	10	18	18	14	24	19	20	211
(12)	Norton-in-Hales	...	21	7	17	22	22	13	19	22	21	27	24	22	237
(13)	Dorrington	...	25	8	24	23	21	11	21	24	19	26	22	23	247

TABLE No. 4—continued.

			JAN.	FEB.	MAR.	APL.	MAY	JUNE	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.	TOTAL.
(14)	Bromfield	...	22	8	18	16	16	11	22	23	18	23	20	20	217
(15)	Oakly Park	...	19	7	14	15	17	6	17	18	14	24	17	19	187
(16)	Sansaw	...	22	7	21	19	15	13	16	22	18	26	18	18	215
(17)	Cantreyn, Bridgnorth	...	19	6	16	18	16	9	16	20	16	20	16	20	192
(18)	Shifnal	...	20	6	16	18	13	8	19	20	18	25	18	20	201
(19)	Newport	...	19	7	17	17	13	9	20	22	16	22	17	19	198
(20)	Whitchurch	...	19	7	18	17	14	9	18	18	15	24	18	19	196
(21)	Shrewsbury (Copthorne)	...	20	6	18	14	12	13	15	15	16	22	17	19	187
(22)	Fitz	...	16	6	17	16	12	11	16	19	16	21	15	19	184
(23)	Radbrook, Shrewsbury	...	23	11	17	19	17	13	17	20	18	24	17	19	215
(24)	Harper Adams College	...	20	6	18	15	12	13	17	23	16	21	15	20	196
(25)	Roden	...	19	5	19	18	14	12	20	21	19	24	19	19	209
(26)	Shrewsbury, Coton Hill	...	19	7	17	16	16	10	16	18	16	24	18	18	195
(27)	Shrewsbury, Monkmoor	...	18	6	18	17	18	13	21	19	16	24	19	19	208
														Total for year ...	5564
														Average for year ...	206

TABLE No. 5.

TEMPERATURES—HIGHEST AND LOWEST, WITH DATES.

HIGHEST TEMPERATURE ; DEGREES FAHRENHEIT.

		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
(1)	Burwarton ...	56 19	49 14	57 26	65 25	72 25	85 6	84 5	90 29	73 1	69 4	62 9	55 20
(6)	Longden Manor	59 19-20	46 27	58 26-30	63 11	74 27	82 6	79 5	87 27	73 1-3	64 16	55 8-9-15	54 18
(12)	Norton-in-Hales	53 7	48 12	55 28	64 24	70 27	80 29	79 1	83 27	72 5	65 17	58 14	50 18
(15)	Oakly Park ...	57 18	48 28	62 26	62 11	67 25	80 6	79 5	87 29	73 5	63 16	60 7	53 18
(16)	Sansaw ...	54 19	46 27	55 26-29	72 29.	78 15	85 5	78 5-8	84 27	70 5	62 17	54 9-15	49 15
(17)	Cantreyn, Bridgnorth ...	55 19	46 27	61 26	67 24	73 26	87 6	87 5	93 29	78 5	64 3-16	60 8	52 10
(18)	Shifnal ...	58 19	49 28	60 30	65 24	77 16	83 6	94 17	76 30	74 5	64 4	60 9	57 11
(24)	Harper Adams College ...	56 19	49 28	55 26	62 24	69 27	80 6	76 5	87 27	70 1-2-3 4-5-10	63 3-4 15-17	58 9	52 18 27
(25)	Roden ...	57 8	46 1	57 26	68 25	68 27	81 6	78 5	87 27	72 5	65 15	57 1-9	50 27
(27)	Shrewsbury (Monkmoor) ...	60 19	49 28	58 26	64 24	69 27	80 6	77 5	87 27	74 3	65 3-14-15 16-17	60 9	55 18

LOWEST TEMPERATURE ; DEGREES FAHRENHEIT.

		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
(1)	Burwarton ...	27 25	24 8-9-15 16-23	18 19	30 21	32 7-9	40 25	43 6	40 4-12 14-16	34 15	30 9-26	24 16	27 4-7-10
(6)	Longden Manor	27 26	25 21	20 20	32 22	33 9	42 26	49 23-24	45 3-22	42 26	38 25-26 27	27 17	29 5
(12)	Norton-in-Hales	25 30	16 18	6 20	27 22	30 10	39 26	43 29	42 20	37 17	33 10	20 17	24 9
(15)	Oakly Park ...	23 16	17 17	8 20	26 22	28 10	34 26	40 31	42 25	35 19	29 10	11 17	15 10
(16)	Sansaw ...	27 16	23 21	19 20	29 22	32 10	42 26	47 12-31	45 3-21	40 30	34 27	25 6-17	24 10
(17)	Cantreyn, Bridgnorth ...	27 15	22 16	15 19	27 21	28 9	35 25	41 12	42 2	37 30	29 26	22 4	20 9
(18)	Shifnal ...	28 15	37 13-20	17 19	30 21	30 9	40 22	37 24	41 19	33 9	33 9	20 16	37 20-21
(24)	Harper Adams College ...	26 16	23 21	3 20	28 22	29 1	37 26	42 12	43 17-20	40 16-19	31 27	20 17	21 10
(25)	Roden ...	23 16	20 17-21	8 20	26 22	28 1	35 26	42 7-13	37 28	36 19	31 27	18 17	19 10
(27)	Shrewsbury (Monkmoor) ...	25 16	21 17-21	9 20	27 22	30 1-10	37 26	45 7	43 3	40 16	32 27	20 17	20 10